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behavior. Changes undertaken as a result of this process involved incorporating the concepts of "equal promotion opportunity," cross-training, the "worldwide manning level," "time-on-station," and "time-in-CONUS" into the ISEM-P structure. A design for the rated management supplement was also established for potential incorporation into ISEM-P. The results of the four "scenario problems" simulation runs were analysed and compared to the baseline situation.

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VOLUME 1

TESTING, EVALUATION,
AUGMENTATION, AND IMPROVEMENT
OF AN INTEGRATED SIMULATION
EVALUATION MODEL PROTOTYPE
(ISEM-P) OF THE AIR FORCE
MANPOWER AND PERSONNEL SYSTEM

Contract Number F49620-78-C-0001

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1.0 INTRODUCTION

The Integrated Simulation Evaluation Model Prototype (ISEM-P) is a computer program, written in the SIMSCRIPT II.5 language, which simulates the basic planning activities and decision-making procedures involved in the Air Force Manpower and Personnel System (AFMPS). The ISEM-P design is based on a modular representation of the AFMPS in which long-range force structure planning, training program requirements, short-range personnel assignment planning, and actual personnel flows are simulated as integrated activities for the purpose of evaluating force structure responses to various mission and policy changes. The basic purpose of the project discussed in this report is to investigate the feasibility of using this simulation approach to predict and analyze the impact of changes in policies, procedures, and environmental conditions on the performance of the AFMPS as a whole. This report summarizes CONSAD Research Corporation's efforts to fulfill this purpose in the context of Air Force Contract Number F49620-78-C-0001.

2.0 RESEARCH OBJECTIVES

At the initiation of the contract, the objectives of the research project were:

- o To install the ISEM-P model on AFHRL computer facilities to permit its continued development.
- o To establish a user panel or working group to posit scenario problems, to evaluate model results, and to recommend needed modifications to the ISEM-P logic structure.
- o To analyze scenario problems developed by the "ISEM-P Working Group," and to generate reports conforming to user specifications.
- o To perform "logic stress tests" to stress the model's logic up to and beyond its design limits to permit corrective actions to be taken which will assure an undistorted evaluation of the scenario problems, and to define the "practical" limits of application of ISEM.
- o To detail thoroughly the actual ISEM-P computer program.
- o To provide information on the scenario testing process.

In the course of pursuing these objectives, several fundamental limitations of the ISEM-P model were discovered. To eliminate these limitations, the project's research objectives were expanded:

- o To develop within ISEM-P an improved internal personnel assignment procedure reflecting new and broadly detailed understanding achieved during intensive review sessions with the "ISEM-P Working Group."
- o To implement within ISEM-P a more realistic supply-driven promotion procedure which also accommodates cross-training activities and, thereby, describes actual Air Force practices more accurately.
- o To add a newly conceived time-on-station (TOS) memory capability to ISEM-P to provide substantially more realism and flexibility in the modeling system's structure.
- o To evaluate an augmented procedure for reflecting within ISEM-P the complex impacts of the rated supplement in the "real" Air Force.

3.0 RESEARCH ACCOMPLISHMENTS

This section summarizes the status of the project relative to its research objectives and discusses the significant accomplishments achieved in attaining this status.

3.1 Installation of ISEM-P on AFHRL Computer Facilities

At the beginning of this project, the ISEM-P program was installed and operational on a CDC 6600 computer located at Wright-Patterson Air Force Base. The initial task of this project was to transfer the program to the Air Force Human Resources Laboratory (AFHRL) computer facility -- a UNIVAC 1108 computer located at Brooks Air Force Base.

To accomplish this task, CONSAD first secured and arranged for the installation of a SIMSCRIPT II.5 compiler for the AFHRL computer. Then, the source code and associated data files of the ISEM-P program were modified to accommodate the differences in word size, naming conventions, storage management procedures, and arithmetic operations that exist between CDC and UNIVAC equipment. In addition, on several occasions, modifications of the ISEM-P source code were performed to overcome a number of errors that existed in the UNIVAC SIMSCRIPT II.5 compiler in early 1978. These compiler errors were later corrected by the compiler vendor. At the conclusion of these activities, a fully compiled version of the ISEM-P model had been established on the AFHRL computer.

At this juncture, CONSAD attempted to execute an operational run of the model and discovered that the AFHRL computer system did not

have enough primary memory available to accommodate ISEM-P. Therefore, CONSAD restructured the program's use of primary memory to permit it to fit within the limited address space available on the AFHRL facility. In fact, staying within the limits of the system's primary memory proved to be a continuing problem as the model was revised and its capabilities were expanded. The corrective actions taken to overcome these capacity limitations included the elimination of obsolete data structures, the tighter packing of arrays, and the transferring of data between primary memory and disc storage as feasible and necessary. As a result of these efforts, a fully operational version of ISEM-P was installed on the AFHRL computer by early March 1978. This version contained essentially the same logic, inputs, and outputs included in the CDC version that existed at the outset of the project.

3.2 Establishment of an "ISEM Working Group"

As required by the contract, an "ISEM Working Group" was established to develop scenario problems which should be simulated by the model to determine its validity, to recommend modifications of the model's logic that would make it more representative of actual AFMPS behavior, to specify the kinds of output that should be generated by the model, and to suggest specific potential users of the model in its final form. The members of the Working Group were all Air Force personnel actively involved in the planning and administration of the manpower, personnel assignment, and training functions within the AFMPS. Thus, group members were drawn from several organizations within AFMPS, including the Air Force Military Personnel Center (AFMPC), the Air Force

Management Engineering Agency (AFMEA), and the Air Training Command (ATC).

Through the end of November 1978, four meetings of the "ISEM Working Group" were convened at AFHRL. These meetings were held on June 1, 1978, June 22, 1978, July 27, 1978, and November 29, 1978. At each meeting, the group members were familiarized with the existing structure, operation, and output of ISEM-P; and their comments and suggestions were solicited concerning each of the topics listed above.

As a result of these discussions, a set of "scenario problems" was developed to test the validity of the model. Each of these "scenario problems" specified a particular change in external (environmental) conditions or internal (policy) parameters to which the AFMPS had to respond at some time in the past. The full set of "scenario problems" delineated by the "ISEM Working Group" included:

- o Decreases in year-end strength ceilings.
- o Opening or closing an Air Force base.
- o Phasing in or phasing out a weapons system.
- o Changes in the retention of rated personnel.
- o Changes in accession rates.
- o Changes in retention rates.
- o Combinations of decreases in year-end strength ceilings, changes in accession rates, and changes in retention rates.
- o Changes in weapon system crew ratios.
- o Changes in the standard length of overseas tours.
- o Changes in on-the-job training rates.
- o Changes in the mix of personnel in the rated supplement.
- o Decreases in available flying hours.

Thus, for example, the first "scenario problem" specifies a decrease in the total USAF personnel authorization, or year-end strength ceiling, in one or more years relative to the authorization for the previous year. Such authorizations are legislated by Congress and, hence, are part of the environment within which the AFMPS functions.

The particular "scenario problems" included in the set were selected because Working Group members knew how the AFMPS had actually behaved in such situations and, hence, would be able to evaluate the ability of ISEM-P to reproduce that behavior if the model were run with similar conditions and parameter values. In addition, the set of "scenario problems" helped to exemplify the kinds of contexts in which the results produced by ISEM-P might serve the interests of AFMPS analysts and planners.

Finally, the selection of previously observed situations as bases for "scenario problems" also had the beneficial effect of defining a useful collection of output reports. To compare actual and simulated behavior, it is necessary to use the same types of descriptions of that behavior. Prior to the meetings of the "ISEM Working Group," the primary outputs generated by ISEM-P focused on only one of the 91 airmen and officer skills included in the model. These outputs comprised essentially a list of the transactions that affected personnel having that skill throughout the simulation run. While these outputs were useful for debugging the ISEM-P computer program, the detailed transactions report, describing several hundred personnel transactions per month throughout the 60 months contained in a five-year simulation run, did not provide the type of information most useful for analysis or evaluation. To rectify this

situation, the members of the "ISEM Working Group" identified a number of variables, and combinations of variables, whose values they wished to see for each year during the simulation run. CONSAD then designed, installed, and implemented seven new reports, and associated data assembly and manipulation routines, to supply the requested information.

3.3 Analysis of Simulation Results

From the set of "scenario problems" listed above, the first two were selected for initial analysis: decreasing year-end strength ceilings and closing an Air Force base. Several additions to the model were required to permit ISEM-P to simulate these scenario problems. Most notably, it was necessary to develop a way to represent the particular sequence of events through which the AFMPS closes a base. The information needed to accomplish the required modification of the model was acquired at the second meeting of the "ISEM Working Group." Then, simulation runs examining the two selected "scenario problems," as well as a baseline situation, were performed. In the baseline situation, no environmental conditions were changed during the course of the simulation run. Thus, in essence, the baseline situation describes an environment in which Congressional authorizations of USAF personnel are constant over time.

The results of the three simulation runs were presented to the "ISEM Working Group" at its third meeting. In general, the members of the Working Group expressed support for the extent to which actual AFMPS decision-making processes were captured in the model. Yet, several notable inconsistencies between ISEM-P outputs and observed AFMPS behavior were identified at the meeting. Intensive discussions

between CONSAD staff and the members of the Working Group isolated the sources of the inconsistencies, and revealed that the selected "scenario problems" had stressed the model's logic beyond its design limits. In particular, the discussions disclosed that the model did not contain adequate representations of the actual AFMPS procedures in the following areas:

- o Airman promotions, where ISEM-P failed to incorporate the Air Force's "equal promotion opportunity" policy.
- o Airman cross-training, where the model relied excessively on mandated reductions in force.
- o Choice of personnel for overseas assignments, where the model failed to recognize time-on-station and time-in-CONUS constraints on personnel movements.
- o Selection of personnel to relieve imbalances between base supplies and authorizations, where ISEM-P did not include the "worldwide manning level" as a decision criterion.
- o Designation of CONUS (Continental United States) assignments for personnel returning from overseas tours, where once again the "worldwide manning level" was not considered by the model.
- o Assignment of technical school graduates, where ISEM-P projected graduations for an excessive time horizon and, then, attached improper priority to CONUS bases as assignment locations.
- o Allocation of personnel authorizations for personnel in training, where the model directly offset trainees against the year-end strength ceiling.
- o Calculation of manpower requirements for bases supporting different types of missions, where a programming error precluded the transferring to a base any type of mission which did not previously exist at the base.

To determine the precise model formulation appropriate to correct ISEM-P's representations of these procedures, CONSAD conducted numerous telephone interviews with Air Force personnel responsible for the

establishment of manpower requirements, the implementation of manpower utilization policy, the management of reenlistment, the development and application of promotion policy, the establishment of training requirements, the implementation of training and cross-training policy, the setting of recruiting quotas, and force programming. The specific Air Force personnel contacted, and their areas of expertise within the AFMPS, included:

- o Captain Mike Robards, Manpower and Personnel Center (MPC), assignment operations.
- o Captain Bud Dailey, Manpower and Personnel Center Military Assistance (MPCMA), reenlistment policy.
- o Captain Roy Smoker, Air Force Management Engineering Agency (AFMEA), manpower planning.
- o Mr. Lou Catrow, Air Training Command/Technical Training Programming (ATC/TTPP), technical training programming.
- o Captain David Harrington, MPXOP, airman promotions.
- o Lt. Colonel Jim Mollicone, ATC/RSOPM, airman procurement.
- o Major Chris Summers, Airman Programs Branch, Force Programs Division, Directorate of Personnel Programs, Deputy Chief of Staff for Manpower and Personnel (MPPPN), first-term management.
- o Sergeant Jean Breeden, MPPPN, force programming.
- o Major Bill O'Connor, MPPPN, trained personnel requirement and reenlistment.

The insights obtained in the interviews of these personnel were incorporated into designs for modifications of the model and, then, transformed into computer code for inclusion in the ISEM-P program. As of November 30, 1978, CONSAD had accomplished the implementation of modifications to the model structure describing a supply-driven

promotion mechanism consistent with the Air Force's "equal promotion opportunity" policy, and identifying the skills providing supplies and demands for cross-training. In addition, designs had been completed for the inclusion of the "worldwide manning level" as a decision criterion in the assignment algorithm, the incorporation of cross-flows and cross-training within the model structure, the consideration of "time-on-station" and "time-in-CONUS" constraints in the assignment process, and the appropriate planning and execution of assignment of technical school graduates. Finally, the programming error discovered in the calculation of base manpower requirements had been corrected; and efforts had been initiated to design, and examine the feasibility of implementing, procedures describing the essential characteristics of the Air Force's management of the rated supplement.

3.4 Establishment of a Demonstration Model

The insights obtained in the interviews with these personnel were incorporated into designs for modifications to the model and, then, transformed into computer code for inclusion in the ISEM-P program. As a result of this activity, the final form of a demonstration prototype model was established for use in more detailed experiments with a wider variety of scenarios. This model is thoroughly documented in Annex 1. The following discussion makes reference to various charts and figures in that Annex and it will be assumed that the reader is generally familiar with its contents.

Reducing the differences cited by the working group between ISEM-P behavior and its AFMPS counterpart required several specific changes to be incorporated in the model. These changes are discussed in the remainder of this section.

3.4.1 Promotions

The "equal promotion opportunity" concept was realized by changing the promotion planning algorithm in the aggregate model. Instead of calculating promotions from one grade to the next higher grade solely on the basis of the demand within a particular skill, the total demand, summed over all skills, is calculated and a single promotion rate (for each grade) is computed which applies to all skills (Chart 3). The number of promotions to a given grade within a skill is obtained by multiplying the number eligible for promotion in the lower grade by this rate. Hence, the actual promotions to be awarded in a skill/grade group are independent of the particular promotion demand for that skill in higher grades and, instead, are dependent on the number of eligibles in the lower grade (and, of course, the overall rate).

The model computes officer promotions in exactly the same way as airmen promotions. This uniformity of method is a carryover from the original model design. While those interviewed suggested that officer promotion is influenced by more factors than in the airmen case, they also indicated that these factors were often idiosyncratic to particular skills and particular grades. To incorporate such factors in the model would have expanded the promotion planning algorithm into a set of different algorithms, each relating to a different set of skill/grade

groups. The additional data gathering and analysis required to formulate these algorithms was felt to be unwarranted for the prototype at this time.

3.4.2 Airmen Cross-Training

The implementation of cross-training required augmentations to both the aggregate and assignment models. In the aggregate model, a flow path was added for personnel to transfer from one skill to another (Chart 7). Cross-trainees retain their grade and year-group membership. Since cross-training is stimulated by perceived shortages in various skills, the computation of how many personnel may possibly cross-train, and how many will actually volunteer to do so, is based on the year-end inventory after all other flows have been taken into account.

A fairly simple algorithm for assigning cross-trainees to schools at particular times was added to the assignment model (Chart 8). No attempt was made to coordinate such assignments with mandated moves, such as returning from overseas duty. Instead, CONUS personnel from the skill/grade groups chosen as cross-training sources by the aggregate model are assigned to fill the cross-trainee production quotas (at schools) also established by the aggregate model. The number to be drawn from each base is proportional to the relative population of the bases in that skill/grade group. Several changes were also required in the school flow algorithms (Chart 13) to permit the matching of dispositions to graduates by grade level. Previously, schools were assumed to train personnel in only one grade, but with cross-training there may be personnel at various grades in training simultaneously.

3.4.3 World-Wide Manning Level

Instead of using only base authorizations in assignment planning, the model was changed to reflect the use of base entitlements as assignment targets (Chart 9). The basic idea is that each base is entitled to that fraction of available personnel which corresponds to its authorization relative to all other bases. If Air Force-wide overages (or shortages) exist in a personnel group, the assignment algorithm will increase (or decrease) entitlements proportionally. In this way, assignments can be responsive to current conditions despite fluctuations in the stock caused by higher level decisions, such as promotions, over which assignment planners have no control. The world-wide manning level (WWML) is used to gauge the extent of overages and shortages. In ISEM-P, the WWML by skill and grade is computed as the total available personnel in each group (including projected school graduates) divided by the total authorization for that group.

3.4.4 Overseas Levies

AFMPS uses two main criteria for choosing personnel to be assigned to overseas duty when there are insufficient volunteers for such duty to fill the demand. First, a record is kept of the total number of overseas tours each person has taken and those with fewer tours are selected in preference to those with more. Second, within the set determined by tour-count, those with longer incumbency in CONUS posts are selected before those with shorter incumbency. The objective of this policy is to allocate personnel to overseas tours equitably.

The second of these two criteria was chosen for incorporation in the model since it was determined to be easier to represent. For each skill/grade group at each CONUS base, a record is kept of the distribution of personnel residing there by months of incumbency. This record is called the "time-on-station memory" or "TOS memory" for short. The total number that have resided at their base longer than a minimum time are deemed eligible for overseas tours. This number is called the "TOS status." Personnel are selected from bases in proportion to the fraction of total eligibles appearing at each base (Chart 9). Volunteers are not represented.

Since it is possible for personnel to remain in the CONUS at a succession of CONUS assignments, two memories were initially added to the model. The first kept track of the incumbency distribution at each base (the TOS memory) and the second maintained a CONUS incumbency distribution over all bases (a "time-in-CONUS memory"). However, it was found that the vast majority of reassignments of CONUS personnel were made to overseas bases and so the CONUS incumbency distribution was highly correlated with base incumbency distribution. Hence, to reduce core storage requirements, the CONUS incumbency distribution was deleted.

3.4.5 Assignment of Technical School Graduates

Two changes were made in the model to more accurately represent assignments of graduates. First, instead of assigning on the basis of school production projections, no assignments are made until personnel have actually entered a training pipe. Second, preference is given to overseas assignments over CONUS assignments for new graduates.

3.4.6 Other Changes

A number of other changes were made to the model to accommodate the modifications listed above and to correct various programming errors that were previously known or were revealed in adding new capabilities.

Among the more important changes were:

- o The use of temporary disk files to hold assignment orders during the interval between assignment planning and personnel flow. Exceeding machine core storage capacity has been a continuing problem with ISEM-P. Adding a new data structure, such as the TOS memory, nearly always requires that some other data structure be revised (to make it smaller) or replaced by a disk file. It was found that the cyclic use of assignment orders (i.e., create them at planning time, hold them until realization time, then dispose of them) lent itself in a natural way to temporary disk storage. Hence, the PCA files and assignment files were added to the model (Charts 8 and 9).
- o The reporting programs were augmented to include the printing of TOS information. Also, the capability to generate a history file (Section 4.3, Annex 1) was added for use in more detailed analyses.
- o A new method of constructing distributions of integer quantities so as to fit a probability distribution was added. It is often necessary in ISEM-P to disaggregate a given number of personnel into subtotals according to a list of fractional amounts. For example, given the number of personnel in a skill/grade group to be promoted in a particular month, this number must be split among the various bases where such groups reside according to the fraction of total group population at each base. Previously, a rolling accumulator method was used to save the roundoff error incurred in multiplying by each fraction until this error exceeded 1.0. Then, an extra person was added to the current subtotal. However, this procedure tended to favor the later subtotals in the computation over the earlier ones. The new method distributes roundoff error by applying it to subtotals which are farthest away from the true fraction. An option was also added whereby roundoff error can be allocated probabilistically to subtotals (the routine in the program is known as RANDOM.ROUNDING).

- o Simulation of the effect of on-the-job training (OJT) was deleted from the model. At the level of aggregation at which ISEM-P operates, the constraints on promotions imposed by the need for personnel to complete OJT was determined to be irrelevant.

3.5 Selection of Demonstration Scenarios

Of the twelve scenario problems suggested by the working group, four were selected for further study, along with the baseline case.

These four were:

- o Closing a base: Determine the effect of eliminating one of the bases in the model during the course of a run by reallocating to a second base all missions initially assigned to the closing base and reassigning personnel as needed according to a specified transfer plan.
- o Decreasing year-end strength ceilings: Determine the effects of repeated reductions in Air Force personnel budgets by reducing total authorized end-strength ceilings by a fixed percentage each year.
- o Decreasing available flying hours: Determine the effects of decreasing the squadron utilization rate (flying hours/month) for a particular type of aircraft at some point during a model run.
- o Changing retention rates: Determine the effects of an unexpected change in attrition in certain skills which occurs during one year of a model run.

The baseline case defines what will be called the nominal operation of the system. In the baseline, all environmental conditions and planning parameters remain the same throughout a run. The scenario problems can be viewed as deviations, or perturbations, from the nominal; and the behavior of the model, relative to its baseline behavior, can be viewed as its response to such conditions.

The other eight scenario problems were eliminated from further study for the following reasons:

- o Changes in retention rate of rated personnel, changes in weapon system crew ratios, and changes in the mix of personnel in the rated supplement. Accurately modeling the effects of these changes would require a representation of the rated supplement to be included in the program. This personnel category serves as both a source and a sink for rated officers and so would be affected by any changes in parameters which apply exclusively to rated officer skills. Although a design for a model of the rated supplement was developed (see Annex 2), it was not incorporated into the ISEM-P program because the extra storage space it would require would exceed machine core storage capacity, given the size of the rest of the program.
- o Phasing in or phasing out a weapons system. It was decided that this scenario involved too many simultaneous changes to be considered in an initial demonstration. Since the purpose of the scenario testing process was to determine the basic capabilities of the model, and its design limits, it was felt that trying to do too many things at once would produce unanalyzable results.
- o Changes in accession rates. ISEM-P was designed on the assumption that accession constraints should not be imposed in a prototype. Hence, nothing was included to represent the various actions which might be taken in response to surpluses or shortfalls in accessions, either in the aggregate (over the course of a year) or from month to month. Thus, accession rates were not taken as an exogenous variable and this scenario is outside the scope of the current model.
- o Combinations of decrease in year-end strength, changes in accession rates, and changes in retention rates. As with the weapons system phase in/phase out scenario, it was felt that investigating one class of change at a time would be more profitable in an initial demonstration effort than trying to determine the effect of several perturbations at once.
- o Changes in on-the-job training rates. The effects of this kind of change would not be visible at the level of aggregation established for ISEM-P.

- o Changes in the standard length of overseas tours.
In order to conserve core storage space, the ISEM-P program uses a fixed distribution to represent incumbency times at overseas bases. This works well under nominal conditions -- the personnel flows that affect overseas bases tend to preserve the initial distribution. However, if tour lengths are to be changed during the course of a run, modeling the transition between one stable distribution and another would require a more dynamic memory. Thus, this scenario is beyond the capabilities of the current program.

4.0 SCENARIO ANALYSIS

This section describes the results obtained from running the ISEM-P program with five different input specifications corresponding to the five scenario problems described above. (For the sake of uniformity, the baseline case will be termed a scenario, as well as the others.) Each scenario run will be described in terms of its purpose, input specification, observed results, and the knowledge gained from the run.

4.1 Scenario 1: Baseline

4.1.1 Purpose

The purpose of Scenario 1 (S1) was to establish behavioral norms for the model. Since ISEM-P contains many components, norms for each component had to be determined. This determination would indicate whether the ISEM-P program correctly implemented the algorithmic portions of the model, whether the input data were being properly used, and whether the combination of data and algorithms produced behavior consistent with expectations. In addition, some characterization of the overall behavior of the model, produced by the interaction of the components, had to be developed. "Overall behavior" means the evolution of the simulated force structure over time. For this characterization, it was important to determine the ways in which each component responded to the state of the force structure created by previous actions and to evaluate the extent to which these responses were consistent with expected AFMPS behavior.

4.1.2 Input Specification

The input data to ISEM-P may be divided into two conceptual classes. The first class, which will be termed "parametric data," consists of those values which users of the model are expected to vary from run to run. The second class, "characteristic data," consists of information expected to remain constant from run to run.* The two classes are separated into two input files, the Model Configuration File and the USAF Characteristics File, respectively. The meaning of each data group is described in Annex 1 and a listing of each file for S1 appears in Appendices E and F of that annex.

The primary parametric data consists of a specification of a mission plan for each year of the model run and corresponding authorization ceilings for those years. In S1, the mission plans and ceilings for each year are the same as that specified for year 0. The assignments of missions to bases comprising this plan are shown in Table 1. A summary, in matrix form, is shown in Table 2. (This assignment corresponds to the actual missions performed in 1976 at the bases shown.) Authorization ceilings in S1 are intended to be non-constraining and so the rate of change in the ceiling is set at zero. This means that the ceilings on total airman and officer supplies will always equal the total airman and officer requirements.

All other parameters are set to nominal values, i.e., 91 skills, 17 bases, and default values for retention variance, minimum manning, and cross-training parameters as described in Annex 1. Travel times

*Of course, this grouping is only conceptual -- it is certainly possible to vary the characteristic data from run to run if desired.

TABLE 1: Mission Plan for Baseline Scenario

<u>Bases</u>		<u>Missions</u>			
<u>Number</u>	<u>Name</u>	<u>Number</u>	<u>Type</u>		
<u>Training Bases</u>					
1	Lackland	11	Initial Training		
2	Lowry	10	Technical Training		
3	Williams	8	Undergraduate Pilot Training (T-37/T-38)		
<u>Operations Bases</u>			<u>Squadron</u>	<u>Aircraft</u>	<u>Flying Hours / Month</u>
4	McGuire	6	2	C-141	80
5	Travis	2	1	KC-135	30
		6	2	C-141	80
6	Homestead	3	3	F-4	25
7	Ellsworth	1	1	B-52	45
		2	1	KC-135	30
8	Grandforks	1	1	B-52	45
		2	1	KC-135	30
9	Loring	1	1	B-52	45
		2	1	KC-135	30
10	Pope	7	3	C-130	55
11	Shaw	4	3	RF-4	25
12	Mountainhome	5	3	F-111	25
13	George	3	3	F-4	25
14	Bitburg	3	3	F-4	25
15	Alconbury	4	3	RF-4	25
16	Kadena	3	1	F-4	25
		4	1	RF-4	25
		7	1	C-130	55
17	Kunsan	3	3	F-4	25

*A base support mission (12) is assigned to each base in addition to the missions shown. A flying support mission (9) is assigned to bases 3-17 as well.

TABLE 2: Summary of Baseline Mission Plan

Bases	B-52 1	KC-135 2	F-4 3	RF-4 4	F-111 5	C-141 6	C-130 7	T-37/ 38 8	FS 9	TT 10	IT 11	BS		Skills Per Base
1														61
2														73
3														78
4														65
5														68
6														66
7														72
8														72
9														72
10														65
11														65
12														65
13														66
14														66
15														65
16														73
17														66

were derived by multiplying an average ground-travel rate by inter-base distance for intra-CONUS pipes, and by assuming a one- or two-day flight to overseas bases. Overseas travel pipe capacities were estimated by multiplying an average booking fraction by the number of commercial airline seats/day going to and from particular pairs of bases. The length of the run was set at five simulated years.

The characteristics data will not be discussed here. The sources and meaning of each data group are described in Annex 1 and the actual values used appear in Appendix F of that annex.

4.1.3 Results from the Aggregate Model

4.1.3.1 Manpower Requirements Determination

Manpower requirements are very important in the model because they are used to initialize the force structure. In addition, they are the basis for determining authorizations. The relationship between missions and skills is shown in Table 3 and the requirements calculated for S1 are shown in Figure 1.* Since the mission plan and authorization ceilings remain the same for all years, the same requirements will be calculated for each year of the run.

Of all the numbers displayed, the totals shown on the right are most indicative of the behavior of this component. For each skill, the total requirement at each base is computed as a function of the mission plan (by the methods described in Annex 1, Appendix D) and then summed over all bases to produce the totals displayed. The breakdown by grade is estimated simply by multiplying the total in each skill by the grade standard for that skill.

*Figures for this section appear in the appendix to this volume.

TABLE 3: Mission Skill Requirements

Airmen

Missions

Skills	B-52	KC-135	F-4	RF-4	F-111	C-141	C-130	T-37/ 38	FS	TT	IT	BS
	1	2	3	4	5	6	7	8	9	10	11	12
1	X									X		
2		X								X		
3						X	X			X		
4									X	X	X	X
5									X	X		X
6									X	X		
7									X	X		
8									X	X	X	
9									X	X	X	
10									X	X	X	X
11									X	X		
12									X	X		
13									X	X	X	
14									X	X	X	
15										X		X
16									X	X		X
17	X									X		
18	X									X		
19			X							X		
20	X	X	X	X	X	X	X	X		X	X	
21	X	X	X	X	X	X	X	X		X		
22	X	X	X	X	X	X	X	X		X	X	
23								X		X		
24								X		X		
25								X		X		
26									X	X		X
27	X	X	X	X	X	X	X	X	X	X	X	
28							X			X	X	
29	X	X	X	X	X	X		X		X	X	
30	X	X	X	X	X	X		X		X	X	
31							X			X	X	
32									X	X	X	
33	X		X	X	X					X	X	
34										X	X	X
35										X	X	X
36	X	X	X	X	X	X	X	X		X	X	
37										X		X
38										X	X	X
39										X	X	X
40										X	X	X
41										X	X	X
42										X	X	X
43										X	X	X
44										X		X
45										X		X
46										X	X	X
47										X	X	X
48										X	X	X
49										X		X
50										X		X
51	X	X	X	X	X	X	X	X		X		X

TABLE 3 (continued)

Officers

Missions

Skills	B-52	KC-135	F-4	RF-4	F-111	C-141	C-130	T-37/ 38	FS	TT	IT	BS
	1	2	3	4	5	6	7	8	9	10	11	12
52						X		X				
53							X	X				
54		X						X				
55			X					X				
56					X			X				
57	X							X				
58				X				X				
59	X							X				
60		X						X				
61							X	X				
62						X		X				
63			X					X				
64				X				X				
65					X			X				
66	X							X				
67									X		X	
68									X	X	X	
69									X	X	X	
70									X	X	X	X
71										X		
72	X	X	X	X	X	X	X	X		X	X	
73	X		X	X	X				X	X	X	
74										X	X	X
75										X	X	X
76										X	X	X
77										X	X	X
78										X	X	X
79										X	X	X
80										X	X	X
81										X	X	X
82										X	X	X
83										X	X	X
84										X	X	X
85										X	X	X
86										X	X	X
87										X	X	X
88										X	X	X
89										X	X	X
90										X	X	X
91										X	X	X

It is difficult to compare the requirements calculated by ISEM-P with those for the real Air Force. The fraction of total manpower in each skill need not be the same as the fraction for the whole force since the missions to be performed at the 17 bases in the model are not necessarily a proportional subset of all Air Force missions. Moreover, the requirements for instructors at the three training bases will almost certainly be lower than the actual requirements because the training load for a 17-base force is much lower than for the total force.

Nevertheless, if the ISEM-P results are in fact representative, certain ratios ought to be consistent with those for the whole force. The officer/airman ratio in the model is about 0.19, which is close to that for the whole force.* The model's distribution of airmen required in mission functions, mission support, and base support** is 0.31, 0.18, and 0.51 compared to about 0.38, 0.17, and 0.45 for the same skill categories in the whole force. The ratio of rated officer spaces to non-rated is 0.31 in the model compared to about 0.34 in the whole force.

If analysis is pursued to the level of individual skills, there appear to be certain anomalies in the model outputs. For example, the five largest airman skills in the model (i.e., skills for which there exists the greatest requirements) are different than those for the whole force:

*The term "whole force" will mean the manpower (spaces) required in the full Air Force for those skill classifications included in the model. Data on Air Force manpower was abstracted from the Unit Detail List aggregates supplied to CONSAD by AFMEA in 1978.

**Categories 1, 2, and 3, respectively.

The Five Largest Airman Skills

ISEM-P

46 70XXX Administration
49 81XXX Security Police
27 42XXX Aircraft Acc. Repair
43 64XXX Supply
50 90XXX Medical-Dental

Whole Force

29 431X1 Jet Aircraft Maintenance
27 42XXX Aircraft Acc. Repair
49 81XXX Security Police
43 64XXX Supply
50 90XXX Medical-Dental

Why is skill 46 the largest skill in the model, where it is not even among the top five in the whole force, and why is skill 29 not among the top five in the model, whereas it is the largest in the whole force?

The reason for the large requirement in skill 46 seems to stem from counting all the trainees who will flow through the training bases (Lackland, Lowry, and Williams) during a year as part of the estimated population of that base in determining manpower. The number of trainees/year is large compared to the population of a typical base and so the training bases will appear to have the largest population. Skill 46 has the largest skill coefficient of all the base support skills (i.e., the ratio of the requirements in skill 46 to total base requirements is the largest among all base support skills). Multiplying this coefficient times the estimated training base populations produces an inordinately large requirement for skill 46.

The reason for the relatively low requirement for skill 29 is less clear. Both skill 29 and skill 27 are maintenance skills and the requirements for them are calculated from the equations in Annex 1, appendix section D.1.2. They are both derived from the total maintenance requirements (TMR) for each mission. Specifically:

$$\text{REQ (27)} = C_{27} \times (0.392 \times \text{TMR})$$

$$\text{REQ (29)} = C_{29} \times (0.350 \times \text{TMR})$$

where $C_{27} = 0.82$ and $C_{29} = 0.79$ for all missions. The parenthesized expressions here come from mission manning standards and the skill coefficient values come from 1976 UAR (Uniform Airman Record) population statistics. Thus,

$$\text{REQ (27)} = 0.371 \times \text{TMR}$$

$$\text{REQ (29)} = 0.276 \times \text{TMR}$$

These equations suggest that the discrepancy stems from the values of the skill coefficients. It is suspected that either: (1) a clerical error was made in deriving them from the UAR, or in entering them into the input file, or (2) that the population statistics for 1976 do not yield good estimates of relative manpower requirements in 1978.

One might also consider the five smallest airman skills in the model:

The Five Smallest Airman Skills

<u>ISEM-P</u>			<u>Whole Force</u>		
23	341X1	Instrument Trainer	31	426X1	Prop. Engine Mechanic
25	341XY	Navigator Trainer	12	302XX	Weather Equip. Repair
24	341X2	Defensive Sys. Trainer	24	341X2	Defensive Sys. Trainer
11	293X3	Radio Operator	23	341X1	Instrument Trainer
17	321X0	Bomb & Nav. Mechanic	5	22XXX	Photomapping

There are more differences here than in the table of the five largest skills and the sources of the discrepancies are more varied. For skill 31, ISEM-P includes a propeller-driven aircraft, the C-130, which was part of the equipment inventory in 1976 but was not in 1978. Hence, there is more of a requirement for skill 31 in the model than in the 1978 force. The low requirements for trainers in the model, skills 23, 24, and 25, is a function of the small training loads generated by a 17-base force. Skill 17 is not a large skill in the whole force and is low in the model because of a low ratio of bombing missions to other types in the mission plan.

Skills 5, 11, and 12 are all part of ISEM-P's "Comm-Weather" family (Annex 1, appendix section D.2.3). The requirement for skill 12 is entered directly as a constant in the input file while the other two skills requirements are computed from an assumed communications workload at a typical base. Each base in the model to which a Flying Squadron mission is assigned will have spaces allocated to it for these skills and the number/base in each skill will be the same. It would appear that the difference between ISEM-P and the whole force could come from either: (1) the smaller number of bases in the model (since these requirements are essentially a function of the number of bases) or (2) errors in the skill coefficients of the kind described above.

In the large, the manpower component seems to be working properly. However, since some decisions in the model depend on the relative proportion of personnel in the different skill classifications (notably the distribution of promotions across skills), and since some anomalies have been observed (such as the unduly high influence of the training bases on base support skill requirements), it would be desirable to validate manpower results for each skill. Specifically, it is recommended that:

- o The manpower requirements calculated by the model for each base should be compared with the Unit Detail List for that base (or one performing the same missions) to determine correspondences in totals on a skill-by-skill basis.
- o Where discrepancies are found, it should be determined whether the error lies in skill coefficient values or in the assumptions used in calculating requirements. Appropriate corrective actions should then be applied to the model.

4.1.3.2 Authorization Calculation

In S1, authorizations by skill and grade are set equal to manpower requirements for each year, as indicated in Figure 1. Hence, total end end strength for airmen and officers is equal to total requirements -- 44660 for airmen and 8401 for officers.

4.1.3.3 Loss Projections

The personnel inventory is initialized by distributing the calculated aggregate requirements in year 0 across year groups according to distributions given in the USAF Characteristics file. Summing over all skills in the inventory yields the year group populations shown in Figure 2. The number of personnel in grade level 1 is set equal to the total in grade level 3 in order to provide a source of promotions into level 3. In the real inventory, the number of personnel in level 1 at any point in time is equal to the trainee population which, in turn, is a function of the estimated demand for graduates to fill entry level positions.

Multiplying each cell in the inventory times an expected retention rate, supplied by input data, yields expected separations and a projection of the inventory minus the losses. The retention rates used vary by grade, year group, and whether a skill is an officer skill or an airman skill. The same retention rates are used for each year of the run. The inventory, of course, changes each year as the model operates. The following assumptions are implicit in this simple estimation scheme:

- o That the actual loss estimation procedure can be approximated by a proportional relationship.

- o That grade and year group are the most important factors used in estimating losses and so differences in expected retention rates for different skill classifications can be ignored in a prototype model.
- o That revisions in the expected retention rates from year to year can be ignored in the prototype.
- o That loss estimates do not depend on the particular bases to which individuals are assigned.

4.1.3.4 Promotion Planning

Figure 3 summarizes the information used in promotion planning and the calculated results. The promotion rates specify the fraction of eligible personnel in each grade which must be promoted to the next higher grade in order to fill the projected demand in the higher grade. The demands for level 1 personnel indicate the total number of accessions needed for the year.

For the officer force ("Skill -1"), the promotion planning component behaves as expected. There are sufficient personnel eligible in each grade to meet the demand in the higher grade and the inflow into level 1 exactly balances the total separation losses. If the projection is accurate, following the specified plan will cause the inventory by grade at the end of year 1 to equal the inventory by grade at the start, and so the total number of officers at year end will equal authorized end strength.

For airmen, the promotion plans shown will not meet end strength goals. The central problem is a lack of sufficient personnel in level 3 to meet promotion demands into level 5, as indicated by the "promotion failure" message. The full upgrade demand is 4,982 (vacancies at level 5 plus higher level demands), but the number eligible to be promoted out of level 3 is only 2,693. Note also that the total projected

inventory in level 3, 4,183, is less than the demand at level 5. The response taken by the promotion algorithm is to fill as much of the demand as possible by promoting all the eligibles out of level 3. This limits the shortfall to the level in which it occurs. Other strategies, such as relaxing the eligibility constraints or overpromoting into level 3, were not investigated since it was not clear how AFMPS would respond to a similar situation.

What was clear was that this was a very unlikely situation. Since the promotion algorithm worked for the officers, it was concluded that there must be some inconsistencies in the data characterizing the airman force. There are four input data groups which affect the values used in promotion planning for year 1: promotion windows, retention rates, grade standards, and initial year group distribution. The last three interact in the determination of vacancies by grade since they determine the number of expected separations. The grade standards determine the population by grade and hence determine the maximum size of the sources for promotion. The promotion windows constrain the promotion sources to that portion in eligible year groups.

Upon comparing the grade standards used by the model to a set derived from Unit Detail List aggregates, it was found that the standards in the model tended to be larger in levels 5, 7, and 9 at the expense of lower levels. Instead of an overall distribution of about [0.1, 0.1, 0.43, 0.33, 0.04] across the five grade levels as in the model, the manpower figures yielded a distribution of the form [0.23, 0.23, 0.38, 0.14, 0.02].* This latter distribution would clearly

*Assuming, as in ISEM-P, that the level 1 population is approximately equal to the level 3 population.

increase the population in level 3 and also might lower the promotion demands upon it since there would be fewer separation losses to be replaced in higher levels.

When a run was made using the newly derived standards for airmen, the promotion failure disappeared. Hence, it was concluded that these standards were more consistent with the other data than the original ones. Moreover, since distributions derived from manpower figures more accurately express desired grade populations than distributions derived from historical personnel statistics, it is recommended that such objective grade standards replace the ones currently being used.

The initial year group distribution should also be modified slightly. The aggregate model assumes that all personnel in level 3 at the start of a year will have attained at least one year of tenure in the force. Hence, there should be no level 3 personnel in year group 1. It appears that this assumption was not reflected in the initialization data and so there is a non-zero population in this cell for year 1 only. The data should be changed so that all personnel in year group 1 are considered to be in level 1, not level 3. In terms of actual Air Force grades, what this means is that all airmen in grade E-3 are assumed to have at least one year TAFMS by the time they are promoted to that grade.

4.1.3.5 Aggregate Flows

The principal changes in the inventory over the course of a year result from actual separations, promotions, the inflow of recruits through training pipelines, and aging. The first three of these are summarized

by skill and grade in the report shown in Figure 4. The effects of aging may be observed in the year group population display for the following year, shown in Figure 5.

In S1, actual separations are taken to be exactly equal to the estimates. It was assumed that the estimates used by AFMPS were at least close to the actual losses in the real force. Making separations match estimates exactly in the model considerably simplifies the interpretation of the baseline case.* Nothing is included in the separation mechanism to represent the effects of either external labor market incentives to separate or internal Air Force incentives (or disincentives) to remain in the force. These, and other aspects of simulating retention policies, depend strongly on having a labor market submodel which adequately captures the unique features of Air Force employment and its relation to external markets. An effort to develop such a submodel has been going on in parallel with the development of ISEM-P.

The effects of the equal promotion opportunity policy are quite striking. Before its inclusion in the model, promotions were made in such a way that the population in each grade level in each skill exactly met authorizations by skill and grade. As can be seen in Figure 4, it is now the case that hardly any skill/grade group matches its authorization. Nevertheless, in all grades but one, the total population by grade equals the total authorization by grade for both airmen and officers (the "Grand Total" entries in Figure 4).

*In scenario 5, separations are made to deviate from estimates in order to determine the effect of this assumption.

The shortfall of airmen in level 5 is a result of the promotion failure discussed earlier. Because level 5 demands could not be met, and no extra accessions were made to cover the loss, total airman separations exceeded total airman accessions for the year. Overall, the population decreased by about 5 percent and so the airmen came to be that much below total authorized end strength at the end of the year. Looking at individual skills, only eight (skills 1, 2, 4, 5, 17, 23, 24, and 48) had accession inflows which equaled or exceeded separation outflows. Thus, virtually every skill declined to some fraction below authorization. This shortfall by skill is important because it prevented the cross-training mechanism from evening out the differences between authorizations and inventory, as will be discussed shortly.

Certain skills reveal unanticipated interactions between authorization characteristics and the method of allocating promotions across skills. Consider, for example, skill 11. Since there is a zero authorization at level 3, and so also a zero population at that level, there are no promotions out because there are no personnel eligible for promotion. With no promotions out, there is no demand for promotions in and hence no corresponding demand for accessions into skill 11. The only way that skill 11 can ever gain personnel would be through cross-training.

This situation appears to be unrealistic. First of all, in the actual force, the authorization of skill 11 in level 3 is not zero. It turns out to be zero in the model only because skill 11 is so small that the level 3 authorization is eliminated by roundoff error. Second, it is not clear whether in reality a zero authorization at level 3 would preclude recruiting new personnel into that skill from outside. In general, separation

losses must be replaced by new, trained personnel. That is, the TPR for any skill projected to decline below authorization will be non-zero. From the interviews conducted, it could not be determined whether recruits could be classified into skills for which there were no authorized entry level spaces. It would be desirable to resolve these issues, either by adjusting the grade standards to provide non-zero authorizations or by obtaining a clarification of classification policies for recruits.

Several officer skills also have zero authorizations in the model at level 3 for the same reason as skill 11. Note, for example, skills 71, 76, 79, 81, and 84. However, the model includes no mechanism for lateral flows among officer skills and so there is no way at all for personnel stocks in these skills to ever increase. If the model were run long enough, such stocks would disappear entirely through attrition. Lateral flows were omitted from the model on the officer side because, to be realistic, they should interact with the management of the rated supplement. But, given the problem with the above skills, it is recommended that a lateral flow procedure, based on the cross-training procedure already developed for airmen, be installed for non-rated officer skills. This procedure should eventually be integrated with the rated supplement management simulation described in Annex 2.

4.1.3.6 Cross-Training

It had been expected that cross-training flows would correct imbalances in airman skill/grade groups by transferring personnel from groups over authorization into groups that were under. However, the model assumes that only skills which are over the total authorization for that skill can be sources of cross-trainees. Because of the promotion

failure into level 5, however, very few skills came to be over authorization and the vast majority are under authorization. Hence, not much cross-training is observed in the model.

Moreover, it appears that the cross-training procedures implemented in the program do not always find all the cross-training sources which are available. Skill 4, for example, happens to be one of the few skills which is over authorization at the end of year 1. Yet, in the run reported in Figure 4, it was not selected as a cross-training source. In other runs, such as the one used as an example in Annex 1, section 2.7, skill 4 was found and the correct cross flow was obtained. The reason for this variation in response is not known.

4.1.3.7 Longitudinal Phenomena

The evolution of the aggregate inventory over the five years of the run is shown in the year group population displays appearing in Figures 2, 5, and 6. These results are summarized in terms of non-trainee populations by grade in Table 4. Let us examine the officer populations first.

Two observations might be made. First, as shown in Table 4, officer populations by grade meet authorized end-strength in all years but the last. The anomaly in the fifth year's level 3 population points up a problem in the aggregate model's treatment of level 1 personnel. Instead of generating accessions each year to meet level 3 demands, as should have been done, the level 1 population for a given year is taken to be the previous year's accessions. Then the simple multiplicative promotion algorithm is applied at level 1 just as at all other levels. This leads to a problem as soon as the accessions required in a year

TABLE 4: Populations by Grade Over Five Years

OFFICERS

	Level 3		Level 5		Level 7		Level 9		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Authorization	1527		3320		2111		1443		8401	
Year 1: Population	1527		3320		2111		1443		8401	
Separations	192	12.6	303	9.1	328	15.5	56	3.9	879	10.5
Year 2: Population	1527		3320		2111		1443		8401	
Separations	158	10.3	115	3.5	278	13.2	73	5.1	624	7.4
Year 3: Population	1527		3320		2111		1443		8401	
Separations	33	2.2	121	3.6	290	13.7	98	6.8	542	6.5
Year 4: Population	1527		3320		2111		1443		8401	
Separations	109	7.1	139	4.2	307	14.5	119	8.2	674	8.0
Year: Population	1395		3320		2111		1443		8269	
Separations	91	6.5	69	2.1	246	11.7	141	9.8	547	6.6

TABLE 4 (continued)

AIRMEN

	Level 3		Level 5		Level 7		Level 9		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Authorization	4871		21208		16538		2043		44660	
Year 1: Population Separations	4871 688	14.1	21208 3736	17.6	16538 996	6.0	2043 250	12.2	44660 5670	12.7
Year 2: Population Separations	4871 629	12.9	18919 3520	18.6	16538 1039	6.3	2043 283	13.9	42371 5471	12.9
Year 3: Population Separations	3381 439	13.0	18319 3037	16.6	16538 1096	6.6	2043 315	15.4	40281 4887	12.1
Year 4: Population Separations	3381 439	13.0	16813 2993	17.8	16538 1113	6.7	2043 350	17.1	38775 4895	12.6
Year 5: Population Separations	3381 439	13.0	15299 2552	16.7	16538 1137	6.9	2043 342	16.7	37261 4379	11.8

exceed those required in the previous year: there will be a promotion failure into level 3. This occurs for the officers in year 4 and so year 5's level 3 population falls short of authorization. It is recommended therefore that the oversimplified treatment of level 1 personnel in the aggregate model be replaced with a more accurate calculation.

The second observation is that in all levels but level 9, the separations each year do not follow any upward or downward trend over the five years and so the year group distributions in these levels are in apparent equilibrium throughout the run. That is, the effects of separations and promotions each year do not change the initial shape of these distributions. For level 9, separations increase each year and so its year group distribution apparently does not stabilize in a five-year run. Since any conclusions to be derived from the model regarding its "average" or "typical" behavior depend on the attainment of some relatively stable patterns over time, it is encouraging to find that the empirically derived input distributions for officer characteristics tend to produce a stable year group population pattern.

The airmen population is not so stable. Promotion failures occur every year in level 5 and, because of the problem with level 1 personnel described above, they begin to occur in level 3 in year 3. Hence, accessions never match separation losses and so the population declines each year. In addition, the year group distributions never reach an equilibrium as with the officers. Separations increase each year in levels 7 and 9 and the levels 3 and 5 distributions are quite different from their initial appearance in year 1. It would be desirable to carefully review not only the grade standards for airmen, but also the other

input distributions, such as the initial year group splits, promotion distributions, retention rates, and promotion windows, for mutual consistency. Since the current values for these inputs came from various historical statistics, collected at different times, they may not be compatible with each other. What is not clear is whether the observed instabilities are inherent in the airman force represented by the statistics or whether the model's manipulation of these data is incorrect.

4.1.4 Results from the Assignment Model

The purpose of the assignment model is to simulate the decision procedures that produce assignment orders that cause personnel to be transferred from one base to another. There are eight types of assignment orders:

- o Separation orders.
- o Promotion orders.
- o Assignments of trainees to schools.
- o Assignments of recruits to initial training.
- o Assignments of graduates to bases.
- o Assignments of OVS personnel to CONUS bases on completion of overseas tours.
- o Assignments of CONUS personnel to overseas duty.
- o Reassignments within the CONUS.

Of these, the first four are a direct function of the personnel flows computed by the aggregate model. The remaining four are generated either to transfer personnel who must be transferred (e.g., graduates and those returning from overseas) or to reduce the deviation between base supplies and base authorizations created by previous assignments.

The assignment model produces three sorts of outputs: year-end summary reports, monthly status reports, and the history file. The different outputs highlight different sorts of information about the operation of the model and some observations drawn from each source will now be discussed.

4.1.4.1 Summary Reports

At the end of each year, base supplies are summed up across all bases and displayed in a year-end strength report like that shown in Figure 7. The principal value of this report is to verify that the aggregate flows (e.g., separations, promotions, trainees, and graduates) have been accurately reproduced under the disaggregation by period and base that occurs in the assignment model. Comparing the Figure 7 results to the year-end populations by skill and grade reported by the aggregate model (Figure 4) indicates that, for the most part, the assignment model does accurately track the aggregate model. For all skills, the populations in levels 5, 7, and 9 match almost exactly in both reports. Where there is a discrepancy of one or two, it is likely a result of the roundoff error inherent in disaggregation. The somewhat larger variances at level 3 appear to be due to timing effects in the training and recruiting procedures in the assignment model. On the airman side, 30 persons (0.8 percent of the total accessions for the year) have been brought into the force earlier than expected. On the officer side, 115 persons (13 percent of accessions) are late. It is not known why so many more officers are mistimed than airmen, since the difference in the recruiting and training processes between them is mainly parametric. It would be useful to review these processes to determine the cause of the difference.

The assignment model continues to track the aggregate model, at about the same level of accuracy across levels, for four years of the model run. It can be inferred, therefore, that the temporal disaggregation of separation, promotion, induction, and trainee classification activity implemented in the assignment model program is working properly. In the fifth year, however, level 3 personnel in the year-end strength report drop sharply below the totals in the aggregate model and level 5 personnel drop to a lesser extent. The cause of this was found to be a programming error which prematurely cut off the accession process nine months before the end of the run. What was intended was to discontinue assignment planning at the time since there is no need to generate orders for periods beyond the last period of the run. Hence, it was decided not to include assignment model results from the fifth year in any further analyses of the model.

The other summary report produced by the assignment model gives the number of interbase transfers (Permanent Change of Station moves) which occurred during a year in various categories. Reports for four years of S1 are shown in Figure 8. In the absence of comparable data on the actual force, it has been difficult to establish whether the amount of travel indicated in these results is "normal" or not. However, the breakdowns by category suggest a number of interesting phenomena. For example:

- o In year 1, 532 more airmen return from overseas than are assigned to replace them. Since the majority of the shortfall occurs in level 5, it would appear that this is the way the general shortfall in the airmen force is transmitted to overseas bases. Since ISEM-P does not allow for separation overseas, the only way

shortages can be felt there is by a failure to replace rotatees. In the officer force, where there is no shortfall, the flows into and out of overseas bases are within 3 percent of being balanced.

- o Even though the total airman population continues to decline throughout the run, the number flowing to overseas bases exceeds that returning to CONUS in all years after the first. In fact, there is a continuing trend to increase overseas stocks, for both officers and airmen, throughout the run. The principal contributor to this effect is level 3 but it occurs to some extent at all levels except for airman level 5. It was expected that level 3 outflows to overseas bases would exceed level 3 inflows back to CONUS because level 3 supplies overseas are depleted both by rotations out and promotions out. The reason that other levels exhibit this tendency is not so easily explained. In particular, it is not clear why the level 9 inflows should be higher than level 9 outflows.
- o These reports do not record assignments of graduates to openings at training bases, since this does not involve an interbase transfer. Hence, one cannot tell whether the differences between school inflows (at level 1) and school outflows (at level 3) reflect the volume of training base assignments, a discrepancy in the model, the number of trainees enrolled in school at the time of the report, or some combination of these effects.
- o The number of intra-CONUS levies is small and, after year 1, relatively constant from year to year. It is somewhat remarkable to find any levies at all for level 3 airmen after year 1 since their relatively high promotion rate into level 5 should result in all being promoted before they will have been at a base long enough to be eligible for transfer under the TOS constraint.

Note that Figure 8 includes data on interbase transfers for a single skill, skill 6, as well as the summaries for airmen and officers. This is because skill 6 was the test skill specified for the run which produced Figure 8. For the most part, the results for this skill are similar to the sums over all skills. But, for a test skill, the program also reports the month-by-month transfer activity upon which the PCS report is

based. Hence, we can examine these monthly breakdowns for skill 6 and perhaps find explanations for some of the phenomena listed above.

4.1.4.2 Monthly Status Reports

If a non-zero test skill is specified in the Model Configuration input, two reports on flows of personnel holding that skill will be produced for each month of the run. One report details the planned flows and projected supplies upon which assignment decisions are based. The other shows the flows that were actually realized and the actual supply levels at each base which resulted. Projection reports for skill 6, year 1, appear in Figure 9 and actual flows appear in Figure 10.*

Three aspects of these results are of interest. First, they should show that the gross flows calculated by the aggregate model are being accurately accounted for as changes to base supplies. Second, it is important for the projections to match closely the actual supplies for a given month in order for assignment planning to properly control the geographic distribution of stocks. Third, the assignment actions taken should reasonably simulate those of the AFMPS.

a. Flows Mandated by the Aggregate Model

Monthly volumes of separations, promotions, trainees, and recruits for each skill are established by the aggregate model (Charts 4 through 7 in Annex 1). The number of separation and promotion orders each month for skill 6 is shown in Figure 11. Entries in the columns labeled

*The projection reports are divided into two parts, each part showing different types of flows. The actual supply reports have only one part which shows all the flows.

"holes" are the promotions into that grade. For grade level 3, the "holes" column gives the number of technical school outflows (i.e., graduations) to occur in each month and hence the number of assignments from schools to bases in level 3 which will be made. To provide these outflows, the model first computes the month when trainees must be entered into the school for a skill, and the month when recruits must be inducted and classified into the skill, by subtracting training times (3.75 months and 1.5 months respectively for skill 6) from the outflow month. The number of trainees entering school, and the number of recruits inducted, for that skill during those months is then set equal to the number of technical school graduations in the skill in the outflow month.

By adding up the appropriate columns for the 12 months of year 1, it can be seen that the temporal disaggregation of flows reported in Figure 11 in fact includes all the activity summed up in the aggregate results report (Figure 4). Comparing the orders of each kind in Figure 11 with the number realized by month (Figure 10) shows that all, and only, those orders in Figure 11 are being executed against base supplies. The number of separations, promotions, and trainee assignments on each report match exactly. Evidently, the reason the year-end base supplies are accurately tracking the year-end aggregate stocks (as shown by the year-end strength reports) is that the assignment model is faithfully carrying out the orders it is being given.

It appears, however, that the assignment model is not faithfully carrying out some of its own orders. Compare, for example, the projections for period 1 with the actual supplies realized for that period.

The number of promotions by base -- UPG IN and UPG OUT -- do not match for any grade, although separations, levies, and rotations do (trainee assignments will be discussed in a moment). The reason for this mismatch is that the program does not save the promotion orders it makes at projection time in an external file, as it does with other assignment orders. Instead, it recomputes the distribution of promotions across bases at flow time. However, the projection calculation uses the projected supplies and the flow calculation uses the actual supplies at each base, and there are a few differences in what is counted as part of each supply at the time of each calculation. Consequently, the projected and actual supplies by base differ and so the promotion distributions differ. But, when promotion distributions differ, supplies are made to differ even further in response. Each month, the differences in supplies are exacerbated by the differences in promotions and so subsequent projected promotions continue to diverge from actual promotions. Thus, projected supplies by base gradually fall out of step with actual supplies throughout the run.

This misprojection of promotions is not intended and certainly does not reflect AFMPS behavior. What should be done, it seems, is to save projected promotions in a PCA file to be applied to actual supplies at flow time in the same way as is done with separation orders.

A somewhat less pervasive anomaly in mandated flows appears in the actual supply results for period 5. Where the aggregate results show a cross-trainee flow of one into grade level 5, the trainee picked by the assignment model holds grade 9. As it happens, the program does not save the distribution of cross-trainees by grade calculated by

the aggregate model. The assignment model simply picks trainees from source skills in skill-code order, and then in grade level order within a skill, to fill cross-training quotas by skill and month. While this reduces core storage requirements, it unfortunately leads to differences between the grades from which cross-trainees are selected in the aggregate model compared to the assignment model. With higher volumes of cross-training, this problem would probably be more widespread.

To correct the situation, without increasing the need for core storage, one must pass the cross-training quotas from one model to the other via a secondary storage file rather than the in-core array currently used. Then the necessary grade distribution associated with each skill/month quota could be saved and subsequently retrieved for making assignments. It is recommended that one of the existing files used to convey aggregate outputs to the assignment model be modified to incorporate this new information.

b. Level 3 Technical School Graduates

All entrants into grade level 3 come from schools. Figures 9 and 10 show that for every month in year 1, the number of projected technical school assignments to bases -- TT IN -- is different from the number actually realized. In later months of the year, the projected supplies in level 3 are seen to be lower than the supplies realized in corresponding months. Neither of these results is anomalous. Rather, they are both a consequence of the different intervals of time between projection and flow and between entrance into school and graduation. Recall that assignments are not made for trainees until they actually enter the technical school for their skill. For skill 6, this means that

new level 3 personnel cannot be added to the projection more than three months prior to their graduation date. But projections are made for a period which is nine months prior to the month when flows are realized. Hence, technical school graduates in skill 6 will not show up on the projections for the month in which they graduate. Moreover, since the outflows of personnel caused by separation and promotion do affect the projections, the resulting projected supplies cannot help but be lower than actual supplies.

What is somewhat surprising is that most graduates are not being assigned until after they graduate. In Figures 9 and 10, this is shown by the lack of projected TT IN assignments for all months after the first, while at the same time TT IN assignments are being reported as additions to actual supplies.* Why this is so will be explained in Section 4.1.4.2.c below.

The action taken when graduates are uncommitted at the time they graduate is of some concern. Note that in months 7 and 8, graduates are assigned to CONUS bases even though overseas demand exists for them. This violates the policy that overseas demand should be given preference over CONUS demands in assigning new graduates. Also note that graduates are sometimes assigned to overseas duty even though no demand exists for them there. This violates the policy that overseas bases should not be overmanned even when a skill is in surplus in a given grade.

*This condition is also signalled by exception messages and has been confirmed by an examination of the history file record of school entrants and dispositions.

Both of these effects are caused by an inconsistency in the assignment model. When trainees are assigned before they graduate, the above two policies are enforced (Chart 9). But when they are assigned after graduation, the same allocation procedure used for assigning uncommitted rotatees is used (Chart 13 and Chart 10). This procedure does not compute the worldwide manning levels or base entitlements and it does not give preference to overseas demands. Hence, the above described behavior results. It is believed that AFMPS uses the same policies for assigning graduates regardless of the time of assignment relative to graduation date and so it is recommended that the procedure in the model which allocates uncommitted graduates be made to conform with those policies.

c. Interbase Flows

For the first eight months of the run, the rotation and levy mechanisms operate as expected. The number of rotatees out of overseas bases is correct, levy assignments are planned to cover rotation losses, rotatees are appropriately assigned to CONUS bases, intra-CONUS levies are planned to correct skill imbalances within the CONUS, and the flows actually realized all match the planned assignments.

In the ninth month, however, three curious things begin to happen. First, consider the projection reports. The rotatee pools are reported to contain 11, 15, 12, and 4 members in grade levels 3, 5, 7, and 9 respectively after rotatees for month 9 have been removed from the projected supply. But, after these rotatees have been reassigned to CONUS bases, a substantial fraction of them are not removed from the rotatee pools for grades 3 and 5. Hence, in month 10,

the pools are larger than they should be in these grades. This failure to decrement rotatee pools continues in subsequent months and in months 11 and 12, it also begins to occur in grade 7. Second, the number of assignments planned for grade 3 rotatees in month 10 exceeds even the inflated number of personnel that appear to be available in the pool. This behavior also continues in subsequent months.

The net effect of these two phenomena is to continually increase the projected supplies in grades 3, 5, and 7 at CONUS bases. This result is not correct because the constraints on the sources of such flows are not being respected. The precise cause of the problem is not known. However, the artificial inflation of rotatee pools does account for the failure to assign trainees prior to their graduation date. Given a number of fictitious rotatees, the assignment algorithm will use them to completely fill CONUS base entitlements. Overseas demands will be filled by the normal CONUS-to-overseas levy mechanism. Then, when the technical training pools are considered (Chart 9), there will be no demand for graduates and hence no disposition orders for them will be issued. Thus, trainees will not be assigned until they graduate.

The third curious phenomenon is that the actual flows of rotatees out of overseas bases display an anomaly that is the opposite of the anomaly in projected flows. In the projections, starting with month 9, too many rotatees are assigned to CONUS posts, while in the actual flows, too few leave their overseas posts. For example, the projection report for month 9 shows a total of 29 personnel with overseas tours ending in that month, while the actual supply report shows that only

21 in fact leave. Note also that the fictitious assignments into CONUS bases do not get applied to the actual supplies -- all rotation flows into CONUS bases are matched by rotation flows out of overseas bases.

It seems likely that the cause of this phenomenon is the same as that of the other two. The fact that rotatee pools are not being properly decremented probably means that assignment orders are not being properly issued for rotatees. Clearly, the rotatee assignment mechanisms should be investigated and corrected.

It also seems likely that the disparity between projected and actual rotations coming out of overseas bases is the cause of the mismatch between the flows to and from overseas bases displayed in the PCS reports. The flows going to overseas bases are based on the projections and implemented by levy orders, which are properly executed to produce the flows. The flows leaving overseas bases do not match projections and are implemented by rotation orders which are not being properly handled. Any conclusions which might be drawn from the PCS reports should, therefore, be qualified until the problem with rotatee assignments is corrected.

d. Other Skills

Do the above phenomena occur for other skills in year 1? On examining the monthly reports and history file records for several other skills, two similar sorts of results were found. First, the misprojection of promotion distributions across bases appears to be a systematic error, common to all skills. Second, the difference between aggregate and assignment model calculations of cross-trainee grade occurred for other skills than skill 6.

On the other hand, the problems surrounding overseas assignments did not appear for the other skills examined. Only skill 33 exhibited overseas overages comparable to those for skill 6 and many skills are from time to time in short supply at overseas bases. Indeed, since the PCS reports for the sum of transfers over all skills implies a net decrease in overseas population, while the report on skill 6 implies a net increase, any problem that exists cannot be affecting all skills uniformly.

e. Other Years

The assignment model's treatment of skill 6 is approximately the same throughout the run. Consequently, projections and actual supplies diverge from each other further and further each year. By period 48, for example, the differences are quite substantial, as shown in Figure 12. Since the projections used for planning are confounded by fictitious rotatees, the assignments that are realized come to have little relation to the supply imbalances that actually exist.

An important lesson can be drawn from these results for skill 6. Unless a skill happens to be selected as the test skill, the program does not produce any report on actual or projected personnel distributions by base except for the history file. This file, however, is too voluminous to be able to readily detect phenomena of interest and it does not include projection or flow results that would allow the causes of phenomena to be inferred or problems diagnosed. Hence, it is recommended that some report on the geographic distribution of personnel be added to the program. This report should show at least the actual supplies by skill and base at selected times (e.g., yearly). There might also be some provision for flagging those skills which deviate from authorizations or entitlements beyond some limit. When deviations are large, a detailed report by grade might be produced for that skill to help localize the cause. A similar report could be made for projections for purposes of comparison with the actuals.

4.2 Scenario 2: Base Closure

Scenarios 2 through 5 are designed to investigate the effects of perturbing some conditions in the model during the course of a run that were constant over the run in the baseline case. For S2, the central change is the elimination of a base during the second year. This is accomplished by reassigning all of its missions to another base and relocating personnel appropriately as the missions are moved out. After the second year, this base effectively becomes closed since it has neither authorizations nor supplies and hence will not be involved in assignment actions.

4.2.1 Purpose

Closing a base is primarily an exercise for the assignment model. During the specified year, it has to respond to a geographic shift in mission placement by redistributing base supplies to conform to the new base authorizations. The central question is one of dynamics: How well does the model mimic the pattern of reassignments AFMPS makes over time in closing a base?

In a real closure situation, AFMPS tries to control the time aspect of the reassignment pattern fairly carefully. In order to minimize equipment down-time, and thereby maintain readiness, throughout the relocation interval, different categories of personnel are chosen for transfer in a particular preplanned order. Roughly speaking, mission support personnel lead the transfer, direct mission personnel (and equipment) follow, and base support is transferred last. Such sequences are communicated to assignment planning as a sequence

of changes to authorizations at affected bases. Hence, a more specific question to ask of the model is: How closely do the supplies at a base follow the trajectory of changes in authorizations over time? Moreover, one might also wish to determine the effect of these mandated relocations on PCS flows, or on the distribution of shortages, relative to the baseline case, to try to evaluate the efficiency of the process.

Secondarily, this scenario is relevant to the aggregate model. For example, the loss of a base should lead to an overall decrease in the total base support manpower required in the force. Does the model reproduce this decrease accurately? If so, do the stocks of personnel in these skills shift to shortage bases or are they reduced by attrition? Is there any long-term effect on subsequent years? Reasonable answers to these questions would indicate that, for at least a small range, the more aggregate functions in the model approximate their real-world counterparts.

4.2.2 Input Specification

The input data for S1 and S2 are the same except in two respects. First, the mission plan in S2 specifies that certain missions are to be moved from one base to another in year 2. Second, there is a non-null assignment scenario file in S2 to control the details of the relocation.

Changes in mission placement are specified to the model as changes in base outputs. Base 16, Kadena, was chosen as the base to be closed and base 17, Kunsan, was chosen as the base to gain Kadena's missions. To specify that this shift should occur in year 2, the Base

Outputs section of the Model Configuration input was changed by adding the following five lines to the S1 version:*

```

2
16 0
17 3 3 25
   3 1 25 4 1 25 7 1 55 9 0 0 12 0 0 0
0

```

Thus, starting in year 2, base 16 will have no missions and base 17 will have another squadron of F-4, one squadron of C-130, and one squadron of RF-4 added to the three squadrons of F-4 it had in year 1. (Recall that flying support and base support requirements will be adjusted automatically since they are a function of the flying missions assigned to a base.) Missions at all other bases are the same throughout the run. As in S1, authorizations and requirements will be equal (no ceiling constraints).

If the model were run with no further changes than this one, assignment planning would "see" the specified shift in authorizations in the first period of the second year -- period 13. It would, moreover, attempt to reassign supplies in period 13 to satisfy all the new demands at once. To preclude this action, and to approximate the phased assignment plan AFMPS actually uses, an Assignment Scenario file (displayed in Appendix G of Annex 1) was developed for S2.

*Notice that mission 3 is duplicated in the output specification of base 17. Initially, this mission was "moved" by simply incrementing the quantity of squadrons specified in mission 3 from three to four. But it was discovered that a manpower requirement calculation contained an erroneous step which, in effect, reset the quantity parameter to one in computing aviator-family requirements. Thus, it appeared as though this mission was being partially deleted, rather than moved, in subsequent model behavior. Eliminating this error would tend to raise the proportion of aviator-skill personnel in the force since the quantity of squadrons at many bases is greater than one.

The detailed sequence of authorization and supply changes (by period) that the instructions in this file define is shown in Figure 13. What these actions are intended to simulate is as follows:

<u>Periods</u>	<u>Events</u>	<u>Intent</u>
13	a	There is no mechanism in ISEM-P for "locking" a base, i.e., for prohibiting transfers into or out of a base arbitrarily. To reduce uncontrolled flows into base 16, and thus get some of the effects of locking, its authorization is reduced to minimum levels. The hope is that, as personnel leave slots at base 16 (by the two flows permitted at OVS bases, promotion and rotation), little or no demand will be induced to be filled from CONUS sources.
13-15	b,c,d	Phase-in mission support personnel at gaining base. (The program does not actually compute required numbers on a squadron basis but rather uses one-third of the MS total authorized at base 16 in period 12 as an approximation of the MS required for one squadron.) Note that MS authorization is increased at base 17 before it is dispersed at base 16. The implication is that even if supplies equaled end-strength in MS skills, all bases will be short during a relocation in order to provide for the build-up at the gaining base.
15-17	e,g,i	Phase-in direct mission personnel at gaining base. (Again, instead of considering personnel by squadron, the program transfers one-third of those in the DM category as an approximation to one squadron.)
15-17	f,h,l	Phase-in base support personnel at gaining base.
17-18	j,k,m,n	Close out losing base. Only mission and base support staff remain. Disperse them through normal rotation assignment mechanisms.

4.2.3 Results from the Aggregate Model

Closing a base in year 2 should produce a reduction in manpower requirements, authorizations, and inventory in year 2 relative to scenario 1. The following sections describe the distribution of these reductions.

4.2.3.1 Manpower

The reductions in requirements (and, hence, in authorizations) is summarized by skill in Table 5. As expected, direct mission skills are affected only slightly, since the total number of aircraft and hours they are to be flown do not change when base 16's missions are shifted to base 17. The requirement for skill 48 is a function of base population and so declines as other requirements decline. The reduction in munitions maintenance requirements (skills 32 and 73) is apparently a realization of the economies of scale upon which the manpower standard for skill 32 (see Annex 1, Appendix section D.2.1) is based.

Among mission support skills, three types of reductions are obtained. The requirements for skills 6, 11, 12, 13, 4, and 69 in the Comm-Weather family, are a function only of the number of bases. Eliminating base 16 eliminates one base's requirements without increasing requirements at base 17. (Eliminating base 16 has the affect of eliminating one of the 15 flying support missions. A 6.6 percent reduction is equal to a reduction of one-fifteenth.) In contrast, the requirements for skills 7, 8, and 9 do increase at base 17, but not as much as the number eliminated at base 16. So, there is a net reduction in these skills (attributable to the same sort of scale effects as in skill 32). Finally, requirements for skills 1, 5, 10, 14, and 26 are partly a function of the number of bases

TABLE 5: Reductions in Requirements
Due to Closing Base 16

		<u>Airmen</u>	
<u>Skill</u>	<u>Title</u>	<u>Reduction</u>	
		<u>Number</u>	<u>Percent*</u>
Munitions:			
32	Munitions Maintenance	5	0.6
Training:			
48	Training Support	7	1.7
Total Direct Mission		12	0.1
Comm-Weather:			
4	Intelligence	33	2.1
5	Photomapping	2	2.2
6	Weather	87	6.7
10	Telecommunications Operator	32	2.5
11	Radio Operator	3	6.4
12	Weather Equipment Repair	31	6.6
13	Radar Equipment Repair	64	6.6
14	Radio Equipment Repair	7	5.6
16	Comm. & Crypto Repair	10	2.1
26	Wire Comm. Maintenance	15	1.9
Air Operations:			
7	Air Operations	4	2.0
8	Air Traffic Controller	9	2.0
9	Detection and Deployment	8	2.2
Total Mission Support		305	3.7
Base Support:			
15	Computer Systems Repair	5	1.5
34	Vehicle Maintenance	9	1.6
35	Computer Systems Operator	10	1.6
37	Mechanical & Electrical Maintenance	19	1.6
38	Civil Engineering	19	1.6
39	Fire Protection	10	1.6
40	Transportation	26	1.5
41	Food Service	10	1.6
42	Fuel Service	11	1.5
43	Supply	47	1.5
44	Procurement	2	1.4
45	Accounting & Finance	9	1.6
46	Administration	53	1.5
47	Manpower-Personnel	24	1.5
49	Security Police	48	1.5
50	Medical-Dental	39	1.5
Total Base Support		341	1.5
Total Airmen		658	1.5

*Percent of total population at all bases in the given skill for S1.

TABLE 5 (continued)

<u>Officers</u>		<u>Reduction</u>	
<u>Skill</u>	<u>Title</u>	<u>Number</u>	<u>Percent *</u>
Munitions:			
73	Munitions	2	0.7
Training:			
84	Training	<u>1</u>	<u>1.3</u>
Total Direct Mission		3	0.1
Comm-Weather:			
69	Weather	50	6.6
70	Comm-Electronic Systems	21	4.5
85	Intelligence	4	1.2
Air Operations:			
67	Air Traffic Controller	2	3.2
68	Weapons Control	<u>2</u>	<u>1.8</u>
Total Mission Support		79	4.5
Base Support:			
71	Computer Maintenance	1	4.8
74	Computer Technology	5	2.1
75	Civil Engineering	3	1.0
77	Transportation	3	2.4
78	Supply	5	2.2
80	Procurement	4	1.4
81	Finance	1	5.3
82	Administration	3	1.2
83	Manpower-Personnel	6	2.4
86	Security Police	2	1.4
87	Biomedical	2	1.2
88	Physician	7	1.6
89	Nurse	6	1.3
90	Dentist	4	2.1
91	Veterinarian	<u>1</u>	<u>2.1</u>
Total Base Support		53	1.6
Total Officers		135	1.6

*Percent of total population at all bases in the given skill for S1.

and partly a function of base population. Decreasing the number of bases by one eliminates one part of the requirement but the increase in population at base 17 increases the other part. The result is a net reduction.

Base support requirements are a function only of base population. Since the combined populations of bases 16 and 17 is less after closing base 16 -- for the reasons just mentioned -- base support requirements decline accordingly. The amount of reduction is approximately equal to the reduction in non-base support requirements, 1.5 percent.

Since there are no further changes to the mission plan after year 2, the changes in requirements and authorizations shown in Table 5 will remain in effect for the rest of the run.

4.2.3.2 Personnel

S2's aggregate results for year 2 are shown in Figure 14. Looking at the officer results first, the total accessions are 135 less than accessions for S1. This was expected since the total officer authorization declines by that much in S2. The reduced inflows are not confined to the affected skills, however. While skill 69 authorizations are reduced by 50, for example, accessions into skill 69 are reduced by only 7. Actually, the total accession reduction is spread uniformly across all skills. Total accessions are about 22 percent less than in S1 and the accessions in S2 into each skill are about 22 percent less across the board. Because of this dispersion of impact, the end strength reduction can be quite easily accommodated through normal attrition. (However, even if reductions by skill were to be imposed on that skill alone, the size of each reduction is still less than normal attrition loss in each

skill.) Hence, no personnel surpluses are created by closing one base in the model.

On the airmen side, S2's effects on accessions are masked by the effects of promotion failure at level 5 and the problem with the treatment of level 1 personnel described earlier. If these effects were not present, it is believed that the model would follow approximately the same behavior for airmen as for officers.

In year 3, officer accessions increase over S1 levels. In examining other scenario results, it has been found that a decrease in authorizations in one year will be followed by an increase in accessions in subsequent years. This rather unexpected behavior will be analyzed in detail in the discussion of scenarios 3 and 4.

4.2.4 Results from the Assignment Model

Because S2 affects different classes of skills in different ways, it is difficult to summarize assignment model results concisely. Instead of a summary, the results for skill 6, a mission support skill, will be presented in full, and partial results for skill 8 will be given for comparison purposes.

4.2.4.1 Skill 6 Assignments

Actual supply reports for skill 6, year 2, are shown in Figure 15. Authorizations and supplies at base 16 for S1 and S2 are shown graphically in Figure 16. The authorization trajectories shown follow the instructions given in Figure 13. The initial drop is due to locking base 16 at minimum levels (event a). Subsequent reductions are caused by events j and m which remove mission support from the base.

Despite the misprojections of promotions and rotatees mentioned earlier, it can be seen that skill 6 supplies follow fairly closely the authorization trajectories at base 16. In each grade level, supplies decline in step with authorization changes. It is suspected that the reason supplies do not match authorizations exactly is because the rotations out of base 16 are not being realized to the extent they should be as computed in assignment planning. Note, for example, that supplies do not fall to zero in levels 3, 5, and 7 after period 18. This confirms the earlier hypothesis that some rotatees are not being removed from the rotation pool when they should be.

Recall that there are no increases in requirements for skill 6 at other bases to absorb losses from base 16. Consequently, all reductions in the supply of skill 6 must result from either separations or cross-training. In Figure 14, one can see that skill 6 is not in surplus over all grades, hence it cannot be diminished by cross-training. Attrition losses account for a decrease of 47 in total supply so that, by the end of the year, skill 6 is in fact below its authorization end strength.

For part of the year, however, skill 6 is over authorization. At period 18, authorizations at base 16 are completely eliminated and, for the next five periods, supplies exceed authorizations. Where do these surpluses go? As it turns out, there is little difference between the geographic distribution of personnel in S2 and in S1, where there were no surpluses. For the most part, the extra personnel coming out of base 16 in S2 are reassigned to other bases in the same way as in S1 and so base supplies are larger in S2 but follow the same pattern as in S1. Presumably, this results from the general failure of projections to accurately represent true supplies.

4.2.4.2 Skill 8 Assignments

Skill 8 involves a decrease in base 16 authorizations and an increase at base 17. Figure 17 depicts supplies at base 16 and Figure 18 those at base 17 (these results were taken from the history file). Again, it can be seen that supplies stay approximately in step with authorizations, during both the decrease at base 16 and the increase at base 17. Apparently, enough rotation assignments are being made correctly to allow this behavior to occur.

4.2.4.3 PCS Statistics

PCS reports for S2 are shown in Figure 19. The totals for year 1 match those for S1 almost exactly, as they should since year 1 of both runs is essentially the same. Differences observed in the level 1 and level 3 totals are caused by differences in year 2 training loads in S2. These affect year 1 activity because of the necessary time displacement between graduation (in year 2) and the entrance into schools.

Totals for year 2 are higher for S2 than S1, which also was expected, but the size of the increase exhibited is much larger than expected. The number of PCS moves in S2 is 3,283 more than in S1, including 1,247 more CONUS to OVS travel, 1,309 more OVS to CONUS, 1,027 more OVS to OVS, and 300 less CONUS to CONUS. Only about one-half of this extra volume of travel was expected, according to the following reasons. First, the 1,027 OVS to OVS moves represent the transfer of the direct mission personnel from base 16 to base 17. These transfers occur in addition to the rotation activity for this class, which continues throughout year 2 of S2 at a rate at least equal to that for year 2 of S1.

Second, some additional travel is required to transfer mission support and base support personnel out of base 16 who would not have left through normal rotation. The population at base 16 stands at about 2,500 at the start of year 2, of which about 1,500 are in the MS and BS classes. One would expect a flow of about 1,000 rotatees out of this population during a year, on the assumption that two-thirds of the supply at a base with an 18-month tour of duty rotates out each year. Hence, closing base 16 should generate approximately 500 extra trips to remove the remaining 500 persons. Why the flow from OVS to CONUS should increase by 1,300 rather than 500 is not known.

Third, the new MS and BS authorizations at base 17 must be filled by supplies from CONUS sources. Additional authorizations at 17 number about 695 (= the initial base 16 population - DM personnel - the overall MS and BS authorization reduction = $2,500 - 1,027 - 778$). Why the extra flow from CONUS to OVS is closer to 1,200 than to 700 is not known.

PCS results for years 3 and 4 are also hard to account for. In year 3, the total number of PCS moves is about 500 more for S2 than for S1. Some increase was expected because base 17 has a shorter tour length (12 months) than base 16 (18 months). In year 4, however, PCS moves for S2 are actually slightly less than for S1. There is no consistent pattern in the number of moves by grade or by type of move. It is not clear how to interpret such differences in results.

What might be concluded from the above is that the program does not display enough information to be able to identify the phenomena producing the PCS results. But, exactly what should be displayed is not clear. It can be seen that results for one skill can

follow a pattern that differs from the results summed over all skills. Results might be displayed for all skills individually, but that would make for a very large report. The program currently permits the collection and display of results for any number of skill groups and so experimentation with different groups might yield a collection that helps in analysis. Other disaggregations might be tried, such as displaying the transfers affecting each base, or the totals for each period. Third, there may be some measures used by AFMPS to monitor real PCS activity which would be of benefit in interpreting the model. If PCS data are of substantial importance in AFMPS decision-making, it is recommended that all the above approaches be investigated so that results from the model can be properly related to reality and so that the causal relationship between decisions and results can be clearly depicted.

4.3 Scenario 3: Reductions in Year-End Strength

4.3.1 Purpose

This scenario simulates a reduction in authorizations for both air-
men and officers by a fixed percentage each year starting in year 2 of
the run. In terms of specific skills, the reductions are distributed
across the base support and mission support categories while maintain-
ing direct mission skills at the full strength specified by manpower
requirements. Questions to be addressed by this run include:

- o How are the effects of such a reduction distributed
across the inventory?
- o In what skills do surpluses develop (e.g., because
separations are insufficient in a skill to bring it down
to a reduced authorization in a year's time)?
- o What changes occur in accession rates?
- o What changes occur in training loads?

Given the magnitude of these changes, one could infer the likely
changes in more global performance measures. For example, inputting
reduced personnel supplies by skill into appropriate manpower produc-
tion functions could yield the flying hours or sortie generation rates
to be expected in such circumstances. Or, one could determine the
responsiveness of the training system to reductions in the demand for
graduates.

4.3.2 Input Specification

S3 input is the same as S1 except for the run control line in the
Model Configuration file. This line was changed to:

91 5 -.02 -.02 1.0 1.0

The third and fourth numbers specify that authorized end strength is to be reduced by 2 percent each year after the first for both airmen and officers. Default values for the minimum manning fractions are used. These specify that the authorization for direct mission skills must not go below 100 percent of requirements, mission support must not go below 84 percent, and base support must not go below 57 percent. (Minimum manning fractions had no effect on S1 because ceilings and requirements were set equal to each other.) No changes were made in any decision procedure, so that, for example, there were no special reduction in force or modification to promotion calculations.

4.3.3 Results

The first year is the same for S1 and S3 so the results of interest commence with year 2.

4.3.3.1 Year 2

The authorizations by skill and grade for S3 are shown in Figure 20. As expected, total authorizations are 2 percent less than requirements. Direct mission skill authorizations are unaffected while mission support drops about 2 percent and base support drops 3 percent for airmen and 4 percent for officers.

Promotion plans for airmen and officers are shown in Figure 21. Since retentions are the same but authorizations are reduced, the number of vacancies by grade is reduced. As a result, the upgrade demands, promotion rates, and accessions are reduced. The 2 percent reduction leads to a 27 percent reduction in officer vacancies and so a 27 percent reduction in officer accessions. For airmen, the reduction in vacancies is only about 12 percent but instead of reducing accession

by that much, the lowering of authorizations works to reduce the size of the promotion deficit at level 5. Since the officer calculations do not suffer from this problem, attention will be focused on the officer inventory for the rest of this section.

Looking at the distribution of level 1 officer inflows across skills, shown in Figure 22, it is interesting that accessions are reduced in all skills by a more or less constant 27 percent. Thus, training loads are not reduced in just those skills involved in the authorization reduction -- the mission and base support skills -- but in all skills. The cause of this appears to be the insulation of promotions from upgrade demands by skill which is induced by promoting by an equal rate across all skills. Accessions are made to fill level 3 demands in a skill and these are not directly related to higher level demands within that skill.

The distribution of reduction in personnel by grade follows the distribution of reductions in authorizations over all skills, but not in any individual skill. The fact that reductions by grade are proportional to the authorization by grade is a consequence of the simple, linear procedure for reconciling requirements to ceiling constraints. The distribution of reductions by grade within a skill is a function of the relative number in each grade in that skill.

Surpluses do not develop in the S3 officer inventory in year 2 that were not there in S1. That is, every skill that was in surplus in S1 is in surplus in S3 and every skill that was in deficit in S1 is in deficit in S3. However, surpluses tended to shrink and deficits to grow among mission skills in S3 while the opposite occurs for mission and base support skills. The magnitudes of these surpluses

and deficits are such that, if sufficient lateral flows were implemented for officer skills, the imbalances could be eliminated and the 2 percent ceiling reduction absorbed without surpluses in any skill. A 2 percent reduction is well below the 6 percent overall officer separation rate and also below the separation rates for each grade. Therefore, it could be absorbed without surplus in any grade. Whatever surpluses develop would depend on lateral flow constraints. Hence, surpluses should follow approximately the same pattern in S3 as in S1.

4.3.3.2 Year 3

Year 3 of S3 is quite surprising. It was expected that the reductions in vacancies, upgrade demands, promotion rates, and accessions would continue throughout the run since authorized end strength continues to decrease each year. But in year 3, total vacancies in the officer inventory actually increase and so accessions go up both with respect to accessions in year 2 of S3 and with respect to year 3 of S1.

The authorizations for year 3 are shown in Figure 23. Airmen base support authorizations are now down to about 93 percent of requirements and officer base support is about 92 percent of requirements. Overall end strength ceilings are down 4 percent, as the scenario requires. In spite of these reductions, the S3 promotion plan, displayed in Figure 24, shows that accessions must increase to meet authorizations. The promotion plan from year 3 of S1 is also shown in Figure 24 for comparison. Note that promotion rates in S3 are still below those in S1, as was true for year 2.

From Figure 24, the increase in accessions is clearly a result of the increase in level 3 vacancies in S3 over S1. The reason for more vacancies appears to be the change in the incumbency distribution which was produced as an unanticipated consequence of changing the authorizations in year 2. Year group populations for officers in S3 year 2 are shown in Figure 25. Comparing this chart to its S1 counterpart in Figure 6, one can see that the populations of year groups near the phase point for each grade tend to be higher in S3 than in S1. Correspondingly, the populations in adjacent higher grades are lower in S3 than in S1. Evidently, with fewer promotions being made in S3, personnel are being left behind at the lower grades. Thus, more of them enter year groups having high separation rates. Note, for example, the bulge of level 3, year group 5 in Figure 25 and the resulting large number of separations from that grade level. Similar, though less pronounced, bulges raise the number of separations in S3, 36 percent above the number in S1, even though the total size of the inventory is less in S3 than in S1. As it happens, the increase in separations is more than the reduction in authorizations and so increased accessions are called for.*

The number of separations in years 4 and 5 of S3 continues to exceed separations in those years for S1; data are shown in Figure 26. However, it appears that the size of the increase does not offset the continuing reductions in authorizations and so accessions should begin

*Separations also increase on the airmen side in S3. However, the promotion failures into levels 3 and 5 wash out the effect on accessions.

to drop. Unfortunately, the problem with the treatment of level 1 personnel discussed earlier clouds the analysis. In year 3 of S3, not enough personnel are promoted to level 3 to meet its upgrade demands and not enough are accessed into level 1. Hence, it is difficult to determine what should be happening in level 3 for years 4 and 5. Similarly, the distribution of accessions over skills in year 3 is not consistent with the promotion plan and so training loads cannot be accurately compared with previous years or with S1 (see Figure 27). Since the co-occurrence of an increase in accessions with a reduction in authorizations is so counter-intuitive, it would be most useful to reanalyze the scenario after suitable changes in the level 1 placement procedures.

4.4 Scenario 4: Reduced Flying Hours

4.4.1 Purpose

The purpose of S4 was to investigate the model's response to a change in workload parameters during the course of a run. One such parameter is the aircraft utilization rate, which is specified in flying hours per month. For S4, the utilization rate for all B-52 aircraft (mission 1) were permanently reduced by 20 percent beginning in year 2.

The most interesting effects of this sort of change are to be expected in the aggregate model results. First, a change in workload should produce a change in manpower requirements. Spaces for skills directly involved in mission 1, such as B-52 pilots, navigators, aerial gunners, and various maintenance skills, should be reduced by a reduction in flying hours. Some mission support requirements should also be reduced. For example, the need for air operations skills should decrease since fewer flying hours can be translated into fewer flights. Base support requirements, too, should decline as the other requirements shrink.

Second, the change in requirements will produce a change in authorizations and so there should be changes in personnel stocks (relative to S1). All the personnel planning questions from S3 (listed in 4.3.1) are therefore relevant to S4. One might expect both stocks and flows to be different in S4 than in S3 because the proportion of authorization reductions in direct mission skills should be much higher in S4 than S3.

4.4.2 Input Specifications

One B-52 squadron is assigned to each of bases 7, 8, and 9. To change the utilization rate starting in year 2, the S1 Base Outputs specification must be augmented as follows to serve as input to S4:

2												
7	1	1	36	2	1	30	9	0	0	12	0	0
8	1	1	36	2	1	30	9	0	0	12	0	0
9	1	1	36	2	1	30	9	0	0	12	0	0
0												0

These lines follow the year 0 output specifications in the Model Configuration file. Their effect is to reduce B-52 squadron utilization from 45 hours/aircraft/month to 36 hours/aircraft/month.

4.4.3 Results

As with the previous scenarios, the deviation from the baseline is scheduled to occur in year 2 and so we begin the analysis with that year.

4.4.3.1 Manpower

Manpower requirements and authorizations calculated for year 2 are shown in Figure 28. Unlike S3, these values will remain the same for the rest of the run. The reductions in requirements (and authorizations) resulting from the reduction in flying hours are summarized in Table 6. Despite the anomalies in requirements discussed earlier, the figures in Table 6 show that many of the manning equations described in Annex 1, Appendix D, have been correctly implemented in the program. For example:

- o Aviator and maintenance spaces are directly proportional to flying hours. In those skills which are unique to mission 1 -- skills 1, 17, 18, 57, 59, and 60 -- the 20 percent reduction in flying hours is translated into a 20 percent reduction in spaces (with a little roundoff error). All aviator and maintenance skills required for mission 1 are affected except for skill 20, but the requirement in this skill is too small to be affected by a 20 percent workload change.
- o Trainer spaces are proportional to the expected number of trainees. With fewer pilots, navigators, and electronic weapons offices in the force, expected trainees are reduced and so the number of trainer spaces decreases.

TABLE 6: Reductions in Requirements Due to
20 Percent Reduction in B-52 Flying Hours

		<u>Airmen</u>		
<u>Skill</u>	<u>Title</u>	<u>Number</u>	<u>Reduction</u> <u>Percent</u>	
Aviator:				
1	Aerial Gunner	15	21.1	
51	Aircrew Protection	6	5.0	
Maintenance:				
17	Bomb & Navigation Systems Mechanic	9	19.1	
18	FCS Mechanic	30	21.9	
21	Integrated Avionics Mechanic	12	1.9	
22	Avionics-Guidance Mechanic	18	1.2	
27	Aircraft Acc. Repair	86	2.7	
29	Jet Aircraft Mechanic	69	2.8	
30	Jet Engine Mechanic	21	3.2	
36	Metalworking	18	2.6	
Training:				
23	Instrument Trainer	1	5.9	
24	Defensive System Trainer	1	5.0	
25	Navigation Trainer	1	5.3	
48	Training Support	9	2.2	
Total Direct Mission		296	2.1	
Comm-Weather:				
4	Intelligence	23	1.5	
10	Telecommunications Operator	20	1.5	
16	Comm. & Crypto Repair	9	1.9	
26	Wire Comm. Maintenance	10	1.2	
Air Operations:				
7	Air Operations	3	1.5	
8	Air Traffic Controller	6	1.3	
9	Detection & Deployment	3	0.8	
Total Mission Support		74	0.9	
Base Support:				
15	Computer Systems Repair	7	2.0	<u>Estimate</u> 6
34	Vehicle Maintenance	10	1.8	9
35	Computer Systems Operator	10	1.6	10
37	Mech. & Elec. Maintenance	20	1.6	19
38	Civil Engineering	20	1.6	19
39	Fire Protection	10	1.6	10
40	Transportation	32	1.8	30
41	Food Service	10	1.6	10
42	Fuel Service	10	1.3	13
43	Supply	54	1.7	53
44	Procurement	4	2.8	2
45	Accounting & Finance	10	1.8	9
46	Administration	64	1.8	60
47	Manpower-Personnel	29	1.8	27
49	Security Police	59	1.8	50
50	Medical-Dental	45	1.7	41
Total Base Support		394	1.7	378
Total Airmen		764	1.7	

TABLE 6 (continued)

		<u>Officers</u>	
<u>Skill</u>	<u>Title</u>	<u>Number</u>	<u>Reduction Percent</u>
Aviator:			
57	B-52 Pilot	33	20.8
59	B-52 Navigator	30	21.7
66	B-52 EWO	15	21.7
Maintenance:			
72	Avionics Maintenance	27	2.6
Total Direct Mission		105	3.1
Comm-Weather:			
70	Comm-Electronics	9	1.9
85	Intelligence	5	1.5
Air Operations:			
67	Air Traffic Controller	3	4.8
Total Mission Support		17	1.0
Base Support:			
74	Computer Technology	5	2.1
75	Civil Engineering	9	3.1
77	Transportation	7	5.7
78	Supply	1	0.4
80	Procurement	8	2.8
82	Administration	1	0.4
83	Manpower-Personnel	5	1.4
86	Security Police	2	1.4
87	Biomedical	3	1.8
88	Physician	6	1.3
89	Nurse	5	1.1
90	Dentist	4	2.1
Total Base Support		56	1.7
Total Officers		178	2.1

- o It was expected that air operations spaces would decrease but not communications-weather. However, the only skills affected in the communications-weather family are those which are also used in base support. Hence, the decrease in their numbers is most likely a result of the overall reduction in base support requirements.
- o Base support requirements decrease because base populations decrease. There will be a decrease not only at bases 7, 8, and 9, but also at the training bases, since fewer trainees and fewer instructors will be present. As explained in Annex 1, Appendix D, base support requirements are computed as a fraction of the total requirements other than base support at each base. Therefore, the reduction in base support should be proportional to the reduction in other requirements. The total reductions in other requirements shown in Table 6 correspond to a fractional reduction of 0.0168389. Multiplying this number times the S1 requirement in each airman base support skill yields the estimated reduction shown in column labeled "Estimate." The fact that these figures agree fairly well with the reductions computed by the model suggests that the base support computations are being performed correctly. Similar estimates turn out to be less accurate for officer skills but this is probably a result of the roundoff error inherent in computations with small integers.

In summary, the changes in requirements all seem to go in the right direction and are of approximately the right magnitude. More detailed validation would require comparison to data from AFMPS on the actual reductions made in a similar situation.

4.4.3.2 Year 2 Personnel

The effect of S4's reduction in authorizations on personnel stocks and flows is remarkably similar to the behavior observed in year 2 of S3. First, compare the promotion plans for S4, shown in Figure 29, with those from S3 in Figure 21. As it happens, a 20 percent reduction in B-52 flying hours produces almost a 2 percent reduction in total airmen authorizations and just over a 2 percent reduction in total officer authorizations. It is apparent that the particular set of skills

in which these reductions are made does not affect the promotion plan very much. Vacancies, upgrade demands, promotion rates, and accessions are all reduced relative to S1 (Figure 3) to about the same extent in S4 as in S3. A 2.1 percent reduction in officer authorizations leads to a 29 percent reduction in vacancies and accessions in S4, where a 2 percent authorization reduction leads to a 27 percent decrease in S3. A 1.7 percent reduction in airmen authorizations leads to a 10 percent vacancy reduction in S4, where a 2 percent authorization reduction leads to a 12 percent decrease in S3.

Second, compare the aggregate results for year 2 of S4, shown in Figure 30, with those from S3 in Figure 22. On the officer side, the distribution of flows by skill and grade and the resulting distribution of stocks at year's end are almost exactly the same. Note, in particular, skills 57, 59, and 66, which are the officer skills most heavily reduced in S4. There is no difference in the personnel distribution in spite of the considerable difference in authorizations. Apparently, without lateral flows and without allowing accessions by skill to differ from level 3 upgrade demands, the equal promotion opportunity algorithm causes the model to be completely insensitive to authorization changes by skill. Only the gross magnitude of the changes has an effect.

It might be argued that the rather simplistic retention calculations implemented in the model also have something to do with its sensitivity to skill-specific changes. However, the fact that the officer inventory by grade meets year-end authorizations by grade suggests that what is needed are flows from one skill to another, and for a more responsive distribution of accessions across skills.

Some evidence supporting this view is present in the airmen results. The airmen skills most heavily reduced in S4 are 1, 17, 18, 23, 24, 25, and 51. These are precisely the skills the model finds to be enough over authorization to qualify as sources of cross-trainees. After cross-training flows, the year-end stocks in these skills match their year-end authorizations much more closely than do the year-end stocks of officers in skills 57, 59, and 66. As was pointed out earlier, some form of lateral flow, whether it represents cross-training, entry and exit from the rated supplement, or simply a reallocation of personnel from one skill to another, seems to be quite critical in reducing skill imbalances generated by the promotion procedure.

4.4.3.3 Year 3 Personnel

The increase in vacancies over year 3 of S1, found to occur in S3, also occurs in S4, as shown in the promotion plans in Figure 31. The reason is the same: reducing authorizations in year 2 leads to reduced promotions which, in turn, leaves personnel in lower grades who age into year groups with high separation rates. In S4, this effect is even more pronounced than in S3 since there is no continuing reductions in authorizations as there was in S3. From the year group population reports, shown in Figure 32, it may be seen that separations are about the same in S3 and S4 -- both considerably above S1. With no authorization reduction in S4, officer accessions are 35 percent above the S1 totals, the same as the increase in separations.

Unlike S3, separations in years 4 and 5 of S4 do not exceed separations in those years in S1 (Figure 33). Apparently, without a continuing drop in authorizations, the year group distribution reaches a

new stable state approximately like that in S1. Hence, overall behavior tends to return to the pattern found in S1. However, the problems mentioned in the discussion of S3 also arise in corresponding years of S4 and so more detailed analysis of S4 will not be undertaken.

4.5 Scenario 5: Retention Reduction

4.5.1 Purpose

Scenario 5 was intended to assess the effects of retention estimation errors on personnel planning. Recall that the aggregate model makes plans for promotions, training, and recruitment based on expected separations rather than actual ones. In previous scenarios, actual separations were equated to expected in order not to confound the effects of misestimation with the effects produced by the other perturbations under study. In the real world, however, actual losses are likely to deviate from expectations and so a provision was made in the program to introduce unexpected losses in order to determine what effect such variances would have.

Based on the structure of the aggregate model, it was expected that variances would not affect planning for the year in which they occurred but would produce differences in cross-training flows in that year. Then, in the following years, the planning procedure should notice the overages or shortages in the inventory caused by the original misestimation and generate a plan to recover from them.

4.5.2 Input Specification

The input to S5 specifies four skills for which actual separations are to deviate from expected. Three airman skills -- 7, 8, and 51 -- and one officer skill -- 52 -- were chosen and the deviation was set at a 60 percent decrease in retention in all grades. This decrease is specified to occur in year 2 of the run by the following input data:

RET.VAR

2								
7	2	.6	3	.6	4	.6	5	.6
8	2	.6	3	.6	4	.6	5	.6
51	2	.6	3	.6	4	.6	5	.6
52	2	.6	3	.6	4	.6	5	.6
0	0							

The skills, deviation, and year were chosen arbitrarily. Authorizations will be the same as in S1 since no factors affecting manpower or ceiling constraints are changed in S5.

4.5.3 Results

Reducing retentions by a factor of 60 percent yields the following reductions in personnel in the four designated skills in year 2:

<u>Skill</u>	<u>Entering Population</u>	<u>Expected Separations</u>	<u>Actual Separations</u>	<u>Differences</u>
7	196	19	90	71
8	443	51	208	157
51	118	14	58	44
52	356	24	255	131

Thus, total airmen separations will be 272 larger than expected (about 5 percent) and officer separations will be 131 larger (about 21 percent).

These variances did not produce the predicted effects on planning. Vacancies, accessions, and promotion rates increased in year 2, relative to the baseline, rather than remaining the same. On examination, it was found that two lines in the planning program had been transposed and that this caused the model to base its promotion plans on actual separations rather than expected. Thus, S5 took on a somewhat different character than was initially intended. Instead of investigating estimation errors, it was decided to examine the effects of large, but anticipated, dips in retention rates.

4.5.3.1 Overall Effects

For the most part, the principal effects of retention reduction seem to be local to the year in which the reductions occur. Consider the changes in inventory by grade shown in Table 7. For the airmen, the only substantial differences in separations, promotion rates, and upgrade demands occurs in year 2. The only effect that continues from one year to the next is an increased number of vacancies at level 5 in S5 relative to S1 starting in year 3. This is due, of course, to the exacerbation of the promotion failure by the increased loss of personnel in year 2. The difference in vacancies decreases in succeeding years but does not entirely vanish by year 5. It appears that the slightly lower population in S5 leads to fewer separations in successive years and so, with constant recruiting inflows, the stock at level 5 slowly rebuilds.

On the officer side, accessions in year 2 rise to meet the increase in separations. In succeeding years, an effect similar to that observed in S3 and S4, but opposite in sign, is found. After an increase in accessions and promotions, as occurs in year 2 of S5, there is a decrease in these quantities in subsequent years because personnel are drawn out of grade/year groups with high separation rates. Note the consistently lower number of separations in grades 5 through 9 in years 3, 4, and 5. The effect is relatively small but it is believed that it is proportional to the initial small change in separations in year 2. If more personnel separated, the impact on later years would be greater.

TABLE 7: Change in Inventory by Grade for Scenario 5 versus Scenario 1

Airmen

	Scenario 1					Total	Scenario 5					Total
	L1	L3	L5	L7	L9		L1	L3	L5	L7	L9	
Year 1:												
Separations	-	688	3,736	996	250	5,670	-	688	3,736	996	250	5,670
Promotion Rate	-	1.0	0.071	0.016	0.0	-	-	1.0	0.071	0.016	0.0	-
Vacancies	3,381	688	3,736	996	250	9,051	3,381	688	3,736	996	250	9,051
Upgrade Demand	3,381	3,381	2,693	1,246	250	-	3,381	3,381	2,693	1,246	250	-
Year 2:												
Separations	-	629	3,520	1,039	283	5,471	-	664	3,604	1,170	305	5,743
Promotion Rate	-	1.0	0.085	0.018	0.0	-	-	1.0	0.096	0.019	0.0	-
Vacancies	4,871	629	5,809	1,039	283	12,631	4,871	664	5,893	1,170	305	12,903
Upgrade Demand	4,871	4,871	4,242	1,322	283	-	4,871	4,871	4,207	1,475	305	-
Year 3:												
Separations	-	439	3,037	1,096	315	4,887	-	439	3,004	1,087	317	4,847
Promotion Rates	-	1.0	0.092	0.020	0.0	-	-	1.0	0.093	0.020	0.0	-
Vacancies	3,381	1,929	5,926	1,096	315	12,647	3,381	1,924	6,165	1,087	317	12,879
Upgrade Demand	3,381	3,381	2,942	1,411	315	-	3,381	3,381	2,942	1,404	317	-
Year 4:												
Separations	-	439	2,993	1,113	350	4,895	-	439	2,962	1,098	347	4,846
Promotion Rates	-	1.0	0.106	0.023	0.0	-	-	1.0	0.106	0.022	0.0	-
Vacancies	3,381	1,929	7,388	1,113	350	14,161	3,381	1,929	7,589	1,098	347	14,344
Upgrade Demand	3,381	3,381	2,942	1,463	350	-	3,381	3,381	2,942	1,445	347	-
Year 5:												
Separations	-	439	2,552	1,137	342	4,470	-	439	2,533	1,130	342	4,444
Promotion Rates	-	1.0	0.116	0.022	0.0	-	-	1.0	0.117	0.022	0.0	-
Vacancies	3,381	1,929	8,461	1,137	342	15,250	3,381	1,929	8,625	1,130	342	15,407
Upgrade Demand	3,381	3,381	2,942	1,479	342	-	3,381	3,381	2,942	1,472	342	-

TABLE 7 (continued)

Officers

	Scenario 1					Total	Scenario 5					Total
	L1	L3	L5	L7	L9		L1	L3	L5	L7	L9	
Year 1:												
Separations	-	192	303	328	56	879	-	192	303	328	56	879
Promotion Rate	-	0.518	0.386	0.052	0.0	-	-	0.518	0.286	0.052	0.0	-
Vacancies	879	192	303	328	56	1,758	879	192	303	328	56	1,758
Upgrade Demand	879	879	687	384	56	-	879	879	687	384	56	-
Year 2:												
Separations	-	158	115	278	73	624	-	204	175	294	82	755
Promotion Rate	-	0.340	0.265	0.065	0.0	-	-	0.416	0.289	0.074	0.0	-
Vacancies	624	158	115	278	73	1,248	755	204	175	294	82	1,510
Upgrade Demand	624	624	466	351	73	-	755	755	551	376	82	-
Year 3:												
Separations	-	33	121	290	98	542	-	34	105	285	98	522
Promotion Rate	-	0.341	0.275	0.0	0.0	-	-	0.327	0.279	0.092	0.0	-
Vacancies	542	33	121	290	98	1,084	522	34	105	285	98	1,047
Upgrade Demand	542	542	509	388	98	-	522	522	488	383	98	-
Year 4:												
Separations	-	109	139	307	119	674	-	85	127	304	117	633
Promotion Rate	-	0.398	0.286	0.137	0.0	-	-	0.380	0.289	0.137	0.0	-
Vacancies	674	109	139	307	119	1,348	633	85	127	304	117	1,266
Upgrade Demand	674	674	565	426	119	-	633	633	548	421	117	-
Year 5:												
Separations	-	91	69	246	141	547	-	108	65	244	138	555
Promotion Rate	-	0.350	0.237	0.183	0.0	-	-	0.342	0.240	0.182	0.0	-
Vacancies	624	223	69	246	141	1,303	666	219	65	244	138	1,332
Upgrade Demand	624	624	456	387	141	-	666	666	447	382	139	-

4.5.3.2 Effects of Designated Skills

The only appreciable effect on the distribution of personnel by skill occurs in the four skills in which separations are higher in year 2. The results for all of them are about the same and are exemplified in the aggregate flow patterns for skill 8 displayed in Figure 34. In year 2, there is no additional flow into skill 8 stocks and so they bear all of the separation loss. The general lack of skills in surplus prevents cross-training personnel into these skills to make it up. In years after year 2, the disproportionately low populations in these skills leads to disproportionately low separations. But, about the same number of accessions are made into these skills and so they slowly increase in population. Thus, the stocks in the designated skills mirror in microcosm the effect observed in the force as a whole.

In connection with S4, it was concluded that the aggregate model is not very sensitive to skill-specific surpluses. Here it is seen that it is not sensitive to skill-specific deficits either. Evidently, if more sensitivity is to be obtained, the factors inhibiting cross-training and those controlling differential accessions by skill must be reviewed and changed as necessary.

APPENDIX: FIGURES

FIGURE 1: S1 Requirements and Authorizations

• • • SCENARIO S1 - "STEADY STATE" • • •

YEAR 11 MANPOWER REQUIREMENTS (A) VS AUTHORIZATION (B)

CATEGORY 1 SKILLS:				LEVEL 5				LEVEL 7				LEVEL 9				TOTAL				PCT OF TOTAL B	
SKL	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)
1	6	6	(100)	22	22	(100)	31	31	(100)	12	12	(100)	71	71	(100)	71	71	(100)	0.5	0.5	
2	12	12	(100)	21	21	(100)	49	49	(100)	12	12	(100)	94	94	(100)	94	94	(100)	0.7	0.7	
3	14	14	(100)	67	67	(100)	165	165	(100)	28	28	(100)	274	274	(100)	274	274	(100)	2.0	2.0	
17	6	6	(100)	25	25	(100)	16	16	(100)	0	0	(0.0)	47	47	(100)	47	47	(100)	0.3	0.3	
18	9	9	(100)	73	73	(100)	55	55	(100)	0	0	(0.0)	137	137	(100)	137	137	(100)	1.0	1.0	
19	9	9	(100)	40	40	(100)	27	27	(100)	8	8	(100)	84	84	(100)	84	84	(100)	0.6	0.6	
20	7	7	(100)	132	132	(100)	85	85	(100)	4	4	(100)	228	228	(100)	228	228	(100)	1.6	1.6	
21	75	75	(100)	338	338	(100)	181	181	(100)	28	28	(100)	622	622	(100)	622	622	(100)	4.5	4.5	
22	90	90	(100)	708	708	(100)	633	633	(100)	58	58	(100)	1489	1489	(100)	1489	1489	(100)	10.8	10.8	
23	1	1	(100)	7	7	(100)	9	9	(100)	0	0	(0.0)	17	17	(100)	17	17	(100)	0.1	0.1	
24	1	1	(100)	8	8	(100)	11	11	(100)	0	0	(0.0)	20	20	(100)	20	20	(100)	0.1	0.1	
25	2	2	(100)	5	5	(100)	12	12	(100)	0	0	(0.0)	19	19	(100)	19	19	(100)	0.1	0.1	
27	290	290	(100)	1730	1730	(100)	1087	1087	(100)	94	94	(100)	3201	3201	(100)	3201	3201	(100)	23.1	23.1	
28	24	24	(100)	162	162	(100)	122	122	(100)	23	23	(100)	331	331	(100)	331	331	(100)	2.4	2.4	
29	171	171	(100)	1192	1192	(100)	899	899	(100)	167	167	(100)	2429	2429	(100)	2429	2429	(100)	17.6	17.6	
30	58	58	(100)	344	344	(100)	246	246	(100)	0	0	(0.0)	648	648	(100)	648	648	(100)	4.7	4.7	
31	3	3	(100)	21	21	(100)	25	25	(100)	40	40	(100)	89	89	(100)	89	89	(100)	0.6	0.6	
32	119	119	(100)	441	441	(100)	254	254	(100)	33	33	(100)	847	847	(100)	847	847	(100)	6.1	6.1	
33	195	195	(100)	1151	1151	(100)	508	508	(100)	98	98	(100)	1952	1952	(100)	1952	1952	(100)	14.1	14.1	
36	77	77	(100)	366	366	(100)	241	241	(100)	19	19	(100)	703	703	(100)	703	703	(100)	5.1	5.1	
48	54	54	(100)	43	43	(100)	287	287	(100)	33	33	(100)	917	917	(100)	917	917	(100)	3.0	3.0	
51	15	15	(100)	56	56	(100)	44	44	(100)	5	5	(100)	120	120	(100)	120	120	(100)	0.9	0.9	
TOTAL	1238	1238	(100)	6952	6952	(100)	4987	4987	(100)	662	662	(100)	13839	13839	(100)	13839	13839	(100)	100.0	100.0	

FIGURE 1 (continued)

CATEGORY 2 SKILLS:				LEVEL 5				LEVEL 7				LEVEL 9				TOTAL		PCT OF TOTAL 8	
SKL	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	(%)
4	355	355	355(100)	541	541	541(100)	559	559	559(100)	95	95	95(100)	1550	1550	1550(100)	19.1	1550	1550(100)	19.1
5	19	19	19(100)	28	28	28(100)	44	44	44(100)	2	2	2(100)	93	93	93(100)	1.1	93	93(100)	1.1
6	151	151	151(100)	483	483	483(100)	573	573	573(100)	90	90	90(100)	1297	1297	1297(100)	15.9	1297	1297(100)	15.9
7	23	23	23(100)	67	67	67(100)	95	95	95(100)	17	17	17(100)	202	202	202(100)	2.5	202	202(100)	2.5
8	64	64	64(100)	151	151	151(100)	202	202	202(100)	31	31	31(100)	448	448	448(100)	5.5	448	448(100)	5.5
9	31	31	31(100)	155	155	155(100)	151	151	151(100)	20	20	20(100)	357	357	357(100)	4.4	357	357(100)	4.4
10	67	67	67(100)	638	638	638(100)	553	553	553(100)	41	41	41(100)	1299	1299	1299(100)	16.0	1299	1299(100)	16.0
11	0	0	0(0.0)	16	16	16(100)	31	31	31(100)	0	0	0(0.0)	47	47	47(100)	0.6	47	47(100)	0.6
12	30	30	30(100)	212	212	212(100)	212	212	212(100)	15	15	15(100)	469	469	469(100)	5.8	469	469(100)	5.8
13	76	76	76(100)	439	439	439(100)	394	394	394(100)	60	60	60(100)	969	969	969(100)	11.9	969	969(100)	11.9
14	16	16	16(100)	59	59	59(100)	49	49	49(100)	0	0	0(0.0)	124	124	124(100)	1.5	124	124(100)	1.5
16	38	38	38(100)	217	217	217(100)	200	200	200(100)	21	21	21(100)	476	476	476(100)	5.9	476	476(100)	5.9
26	77	77	77(100)	411	411	411(100)	290	290	290(100)	25	25	25(100)	803	803	803(100)	9.9	803	803(100)	9.9
TOTAL	947	947	947(100)	3417	3417	3417(100)	3353	3353	3353(100)	417	417	417(100)	8134	8134	8134(100)	100.0	8134	8134(100)	100.0

FIGURE 1 (continued)

CATEGORY 3 SKILLS:									
LEVEL 3									
SKL	--A--	--B--	(%)	LEVEL 5		LEVEL 7		LEVEL 9	
	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)
15	8	8	(100)	148	148	(100)	167	167	(100)
34	65	65	(100)	237	237	(100)	227	227	(100)
35	51	51	(100)	175	175	(100)	332	332	(100)
37	159	159	(100)	600	600	(100)	425	425	(100)
38	184	184	(100)	501	501	(100)	474	474	(100)
39	92	92	(100)	340	340	(100)	171	171	(100)
40	214	214	(100)	966	966	(100)	544	544	(100)
41	54	54	(100)	322	322	(100)	226	226	(100)
42	66	66	(100)	417	417	(100)	237	237	(100)
43	345	345	(100)	1361	1361	(100)	1320	1320	(100)
44	2	2	(100)	44	44	(100)	93	93	(100)
45	73	73	(100)	223	223	(100)	219	219	(100)
46	430	430	(100)	1568	1568	(100)	1426	1426	(100)
47	130	130	(100)	499	499	(100)	777	777	(100)
49	466	466	(100)	2042	2042	(100)	726	726	(100)
50	347	347	(100)	1396	1396	(100)	834	834	(100)
TOTAL	2686	2686	(100)	10839	10839	(100)	8198	8198	(100)
PCT OF TOTAL									
	--A--	--B--	(%)	TOTAL		TOTAL		TOTAL	
	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)
15	344	344	(100)	344	344	(100)	21	21	(100)
34	553	553	(100)	553	553	(100)	24	24	(100)
35	613	613	(100)	613	613	(100)	55	55	(100)
37	1220	1220	(100)	1220	1220	(100)	36	36	(100)
38	1220	1220	(100)	1220	1220	(100)	61	61	(100)
39	615	615	(100)	615	615	(100)	12	12	(100)
40	1756	1756	(100)	1756	1756	(100)	32	32	(100)
41	613	613	(100)	613	613	(100)	11	11	(100)
42	745	745	(100)	745	745	(100)	25	25	(100)
43	3154	3154	(100)	3154	3154	(100)	128	128	(100)
44	144	144	(100)	144	144	(100)	5	5	(100)
45	546	546	(100)	546	546	(100)	31	31	(100)
46	3566	3566	(100)	3566	3566	(100)	142	142	(100)
47	1616	1616	(100)	1616	1616	(100)	210	210	(100)
49	3299	3299	(100)	3299	3299	(100)	65	65	(100)
50	2683	2683	(100)	2683	2683	(100)	106	106	(100)
TOTAL	22687	22687	(100)	22687	22687	(100)	964	964	(100)
GRAND TOTAL									
	4371	4871	(100)	21208	21208	(100)	16538	16538	(100)
	2043	2043	(100)	44660	44660	(100)	100.0	100.0	(100)

FIGURE 1 (continued)

CATEGORY 1 SKILLS:		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF TOTAL B	
SKL	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	TOTAL
52	126	126	(100)	126	126	(100)	38	38	(100)	314	314	(100)	9.3
53	66	66	(100)	64	64	(100)	18	16	(100)	164	164	(100)	4.9
54	53	53	(100)	53	53	(100)	74	31	(100)	211	211	(100)	6.3
55	124	124	(100)	123	123	(100)	26	13	(100)	286	286	(100)	8.5
56	24	24	(100)	23	23	(100)	5	3	(100)	55	55	(100)	1.6
57	40	40	(100)	40	40	(100)	56	23	(100)	159	159	(100)	4.7
58	44	44	(100)	41	41	(100)	15	7	(100)	107	107	(100)	3.2
59	45	45	(100)	45	45	(100)	42	6	(100)	138	138	(100)	4.1
60	32	32	(100)	28	28	(100)	28	4	(100)	92	92	(100)	2.7
61	34	34	(100)	34	34	(100)	8	4	(100)	80	80	(100)	2.4
62	57	57	(100)	54	54	(100)	10	8	(100)	129	129	(100)	3.8
63	26	26	(100)	25	25	(100)	10	0	(000)	61	61	(100)	1.8
64	37	37	(100)	36	36	(100)	9	0	(000)	82	82	(100)	2.4
65	9	9	(100)	9	9	(100)	2	0	(000)	20	20	(100)	0.6
66	30	30	(100)	27	27	(100)	9	3	(100)	69	69	(100)	2.0
72	177	177	(100)	385	385	(100)	269	201	(100)	1032	1032	(100)	30.7
73	57	57	(100)	113	113	(100)	78	44	(100)	292	292	(100)	8.7
84	0	0	(000)	19	19	(100)	27	30	(100)	76	76	(100)	2.3
TOTAL	981	981	(100)	1245	1245	(100)	724	417	(100)	3367	3367	(100)	100.0

FIGURE 1 (continued)

CATEGORY 2 SKILLS:				LEVEL 3				LEVEL 5				LEVEL 7				LEVEL 9				TOTAL				PCT OF TOTAL B	
SKL	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	
67	17	17(100)		24	24(100)		19	19(100)		2	2(100)		62	62(100)		114	114(100)		62	62(100)		3.6	3.6		
68	41	41(100)		50	50(100)		20	20(100)		3	3(100)		114	114(100)		752	752(100)		114	114(100)		6.6	6.6		
69	75	75(100)		361	361(100)		196	196(100)		120	120(100)		752	752(100)		463	463(100)		752	752(100)		43.3	43.3		
70	1	1(100)		205	205(100)		161	161(100)		96	96(100)		463	463(100)		22	22(100)		463	463(100)		26.6	26.6		
76	0	0(000)		17	17(100)		3	3(100)		2	2(100)		22	22(100)		325	325(100)		22	22(100)		1.3	1.3		
85	33	33(100)		142	142(100)		81	81(100)		69	69(100)		325	325(100)		1738	1738(100)		325	325(100)		18.7	18.7		
TOTAL	167	167(100)		799	799(100)		480	480(100)		292	292(100)		1738	1738(100)		100.0	100.0		---	---		---	---		

FIGURE 1 (continued)

CATEGORY 3 SKILLS:		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF TOTAL B
SKL	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)
71	0	0	(0.00)	18	18	(100)	2	2	(100)	1	1	(100)
74	23	23	(100)	127	127	(100)	62	62	(100)	30	30	(100)
75	50	50	(100)	108	108	(100)	64	64	(100)	65	65	(100)
77	7	7	(100)	57	57	(100)	34	34	(100)	25	25	(100)
78	26	26	(100)	94	94	(100)	57	57	(100)	51	51	(100)
79	0	0	(0.00)	20	20	(100)	4	4	(100)	2	2	(100)
80	31	31	(100)	99	99	(100)	65	65	(100)	87	87	(100)
81	0	0	(0.00)	1	1	(100)	1	1	(100)	17	17	(100)
82	48	48	(100)	113	113	(100)	53	53	(100)	41	41	(100)
83	25	25	(100)	119	119	(100)	99	99	(100)	110	110	(100)
86	20	20	(100)	35	35	(100)	25	25	(100)	58	58	(100)
87	24	24	(100)	47	47	(100)	63	63	(100)	30	30	(100)
88	0	0	(0.00)	121	121	(100)	206	206	(100)	120	120	(100)
89	125	125	(100)	192	192	(100)	104	104	(100)	53	53	(100)
90	0	0	(0.00)	102	102	(100)	47	47	(100)	40	40	(100)
91	0	0	(0.00)	23	23	(100)	21	21	(100)	4	4	(100)
TOTAL	379	379	(100)	1276	1276	(100)	907	907	(100)	734	734	(100)
GRAND TOTAL	1527	1527	(100)	3320	3320	(100)	2111	2111	(100)	1443	1443	(100)
										8401	8401	(100)
										3296	3296	(100)

FIGURE 2: S1 Initial Inventory

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 1 TO S1 ENTERING POPULATION AND SEPARATIONS FOR YEAR 1

YG	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	1704	35.0	0	0.	0	0.	0	0.	1704	3.8
2	0	0.	2486	51.0	1274	6.0	0	0.	0	0.	3760	8.4
3	0	0.	631	13.0	4775	22.5	0	0.	0	0.	5406	12.1
4	0	0.	50	1.0	4667	22.0	0	0.	0	0.	4717	10.6
5	0	0.	0	0.	2439	11.5	0	0.	0	0.	2439	5.5
6	0	0.	0	0.	2120	10.0	165	1.0	0	0.	2285	5.1
7	0	0.	0	0.	1701	8.0	336	2.0	0	0.	2037	4.6
8	0	0.	0	0.	1270	6.0	497	3.0	0	0.	1767	4.0
9	0	0.	0	0.	851	4.0	661	4.0	0	0.	1512	3.4
10	0	0.	0	0.	632	3.0	993	6.0	0	0.	1625	3.6
11	0	0.	0	0.	426	2.0	1161	7.0	0	0.	1587	3.6
12	0	0.	0	0.	212	1.0	1238	7.5	0	0.	1450	3.2
13	0	0.	0	0.	208	1.0	1329	8.0	2	0.1	1539	3.4
14	0	0.	0	0.	107	0.5	1326	8.0	8	0.4	1441	3.2
15	0	0.	0	0.	105	0.5	1325	8.0	19	0.9	1448	3.2
16	0	0.	0	0.	88	0.4	1325	8.0	45	2.2	1458	3.3
17	0	0.	0	0.	86	0.4	1321	8.0	85	4.2	1492	3.3
18	0	0.	0	0.	83	0.4	1316	8.0	125	6.1	1524	3.4
19	0	0.	0	0.	83	0.4	1160	7.0	189	9.3	1432	3.2
20	0	0.	0	0.	81	0.4	1157	7.0	249	12.2	1487	3.3
21	0	0.	0	0.	0	0.	497	3.0	208	10.2	705	1.6
22	0	0.	0	0.	0	0.	331	2.0	204	10.0	535	1.2
23	0	0.	0	0.	0	0.	162	1.0	202	9.9	364	0.8
24	0	0.	0	0.	0	0.	161	1.0	182	8.9	343	0.8
25	0	0.	0	0.	0	0.	48	0.3	163	8.0	211	0.5
26	0	0.	0	0.	0	0.	29	0.2	134	6.6	163	0.4
27	0	0.	0	0.	0	0.	0	0.	103	5.0	103	0.2
28	0	0.	0	0.	0	0.	0	0.	68	3.3	68	0.2
29	0	0.	0	0.	0	0.	0	0.	42	2.1	42	0.0
30	0	0.	0	0.	0	0.	0	0.	16	0.8	16	0.0
TOTAL	0	0.	4871	10.9	21208	47.5	16538	37.0	2043	4.6	44660	100.
• SEPS	0	0.	688	14.1	3736	17.6	996	6.0	250	12.2	5670	12.7
PRJCTN	0	0.	4163	85.9	17472	82.4	15542	94.0	1793	87.8	38990	87.3

FIGURE 2 (continued)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 1

YG	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	9	0.6	0	0.	0	0.	0	0.	9	0.1
2	0	0.	34	2.2	0	0.	0	0.	0	0.	34	0.4
3	0	0.	795	52.1	0	0.	0	0.	0	0.	795	9.5
4	0	0.	689	45.1	166	5.0	0	0.	0	0.	855	10.2
5	0	0.	0	0.	597	18.0	0	0.	0	0.	597	7.1
6	0	0.	0	0.	534	16.1	0	0.	0	0.	534	6.4
7	0	0.	0	0.	433	13.0	0	0.	0	0.	433	5.2
8	0	0.	0	0.	468	14.1	0	0.	0	0.	468	5.6
9	0	0.	0	0.	396	11.9	0	0.	0	0.	396	4.7
10	0	0.	0	0.	300	9.0	0	0.	0	0.	300	3.6
11	0	0.	0	0.	266	8.0	40	1.9	0	0.	306	3.6
12	0	0.	0	0.	102	3.1	300	14.2	0	0.	402	4.8
13	0	0.	0	0.	31	0.9	383	18.1	0	0.	414	4.9
14	0	0.	0	0.	27	0.8	341	16.2	0	0.	368	4.4
15	0	0.	0	0.	0	0.	316	15.0	14	1.0	330	3.9
16	0	0.	0	0.	0	0.	292	13.8	13	0.9	305	3.6
17	0	0.	0	0.	0	0.	168	8.0	103	7.1	271	3.2
18	0	0.	0	0.	0	0.	86	4.1	142	9.8	228	2.7
19	0	0.	0	0.	0	0.	80	3.8	176	12.2	256	3.0
20	0	0.	0	0.	0	0.	63	3.0	208	14.4	271	3.2
21	0	0.	0	0.	0	0.	21	1.0	192	13.3	213	2.5
22	0	0.	0	0.	0	0.	21	1.0	159	11.0	180	2.1
23	0	0.	0	0.	0	0.	0	0.	114	7.9	114	1.4
24	0	0.	0	0.	0	0.	0	0.	86	6.0	86	1.0
25	0	0.	0	0.	0	0.	0	0.	72	5.0	72	0.9
26	0	0.	0	0.	0	0.	0	0.	72	5.0	72	0.9
27	0	0.	0	0.	0	0.	0	0.	45	3.1	45	0.5
28	0	0.	0	0.	0	0.	0	0.	28	1.9	28	0.3
29	0	0.	0	0.	0	0.	0	0.	10	0.7	10	0.1
30	0	0.	0	0.	0	0.	0	0.	9	0.6	9	0.1

TOTAL	0	0.	1527	18.2	3320	39.5	2111	25.1	1443	17.2	8401	100.

SEPS	0	0.	192	12.6	303	9.1	328	15.5	56	3.9	879	10.5

PRJCTN	0	0.	1335	87.4	3017	90.9	1783	84.5	1387	96.1	7522	89.5

FIGURE 3: S1 Promotion Plans for Years 1 and 2

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL -1 UPGRADE PLAN FOR YEAR 1

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	TOTAL
PROJECTION	0	1335	3017	1783	1387	7522
PROMOTABLES	0	1326	1341	1067	939	4673
AUTHORIZATION	0	1527	3320	2111	1443	8401
PROMOTION RATES	-	0.518	0.286	0.052	0.0	-
VACANCIES	879	192	303	328	56	1758
UPGRADE DEMANDS	879	879	687	384	56	-

••• PROMOTION FAILURE INTO LEVEL 5 REQ= 4982 ELIGIBLES 2693

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL -2 UPGRADE PLAN FOR YEAR 1

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	TOTAL
PROJECTION	0	4183	17472	15542	1793	38990
PROMOTABLES	0	2693	17472	15542	1793	37500
AUTHORIZATION	0	4871	21208	16538	2043	44660
PROMOTION RATES	-	1.	0.071	0.016	0.0	-
VACANCIES	3381	688	3736	996	250	9051
UPGRADE DEMANDS	3381	3381	2693	1246	250	-

FIGURE 3 (contin 1)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL -1 UPGRADE PLAN FOR YEAR 2

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	TOTAL
PROJECTION	0	1369	3205	1833	1370	7777
PROMOTABLES	0	1369	1324	1115	1042	4850
AUTHORIZATION	0	1527	3320	2111	1443	8401
PROMOTION RATES	-	0.340	0.265	0.065	0.0	-
VACANCIES	624	158	115	278	73	1248
UPGRADE DEMANDS	624	624	466	351	73	-

••• PROMOTION FAILURE INTO LEVEL 5 REQ= 7131 ELIGIBLES 4242

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL -2 UPGRADE PLAN FOR YEAR 2

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	TOTAL
PROJECTION	0	4242	15399	15499	1760	36900
PROMOTABLES	0	4242	15399	15472	1760	36873
AUTHORIZATION	0	4871	21208	16538	2043	44660
PROMOTION RATES	-	1.	0.085	0.018	0.0	-
VACANCIES	4871	629	5809	1039	283	12631
UPGRADE DEMANDS	4871	4871	4242	1322	283	-

FIGURE 4: S1 Aggregate Results for Years 1 and 2

• • • SCENARIO S1 - "STEADY STATE" • • •

YEAR 1: AGGREGATE RESULTS

	LEVEL 1 CHNG	LEVEL 1 POP	LEVEL 3 CHNG	LEVEL 3 POP	LEVEL 5 CHNG	LEVEL 5 POP	LEVEL 7 CHNG	LEVEL 7 POP	LEVEL 9 CHNG	LEVEL 9 POP	TOTAL CHNG	TOTAL POP
SKILL 1												
ENTERING	-	0	-	6	-	22	-	31	-	12	-	71
- SEPS	0	0	0	6	3	19	1	30	0	12	4	67
(EXP)	0	0	0	6	3	19	1	30	0	12	4	67
- UPG OUT	4	-4	4	2	1	18	1	29	0	12	10	57
♦ UPG IN	4	0	4	6	4	22	1	30	1	13	14	71
- XT OUT	0	0	0	6	0	22	0	30	1	12	1	70
NET RESULT	0	0	0	6	0	22	-1	30	0	12	-1	70
AUTHORIZED	0	0	0	6	0	22	0	31	0	12	0	71

	LEVEL 1 CHNG	LEVEL 1 POP	LEVEL 3 CHNG	LEVEL 3 POP	LEVEL 5 CHNG	LEVEL 5 POP	LEVEL 7 CHNG	LEVEL 7 POP	LEVEL 9 CHNG	LEVEL 9 POP	TOTAL CHNG	TOTAL POP
SKILL 2												
ENTERING	-	0	-	12	-	21	-	49	-	12	-	94
- SEPS	0	0	2	10	3	18	1	48	0	12	6	88
(EXP)	0	0	2	10	3	18	1	48	0	12	6	88
- UPG OUT	8	-8	7	3	1	17	1	47	0	12	17	71
♦ UPG IN	8	0	8	11	7	24	1	48	1	13	25	96
- XT OUT	0	0	0	11	3	21	0	48	1	12	4	92
NET RESULT	0	0	-1	11	0	21	-1	48	0	12	-2	92
AUTHORIZED	0	0	0	12	0	21	0	49	0	12	0	94

	LEVEL 1 CHNG	LEVEL 1 POP	LEVEL 3 CHNG	LEVEL 3 POP	LEVEL 5 CHNG	LEVEL 5 POP	LEVEL 7 CHNG	LEVEL 7 POP	LEVEL 9 CHNG	LEVEL 9 POP	TOTAL CHNG	TOTAL POP
SKILL 3												
ENTERING	-	0	-	4	-	67	-	165	-	28	-	274
- SEPS	0	0	2	12	12	55	10	155	3	25	27	247
(EXP)	0	0	2	12	12	55	10	155	3	25	27	247
- UPG OUT	10	-10	8	4	4	51	3	152	0	25	25	222
♦ UPG IN	10	0	10	14	8	59	4	156	3	28	35	257
NET RESULT	0	0	0	14	-8	59	-9	156	0	28	-17	257
AUTHORIZED	0	0	0	14	0	67	0	165	0	28	0	274

FIGURE 4 (continued)

SKILL 4											
ENTERING	-	0	-	355	-	541	-	559	-	95	-
- SEPS	0	0	50	305	95	446	34	525	14	81	193
(EXP)	0	0	50	305	95	446	34	525	14	81	193
- UPG OUT	246	-246	197	108	32	414	8	517	0	81	483
+ UPG IN	246	0	246	354	197	611	32	549	8	89	729
NET RESULT	0	0	-1	354	70	611	-10	549	-6	89	53
AUTHORIZED	0	0		355		541		559		95	1550
SKILL 5											
ENTERING	-	0	-	19	-	28	-	44	-	2	-
- SEPS	0	0	2	17	3	25	1	43	0	2	6
(EXP)	0	0	2	17	3	25	1	43	0	2	6
- UPG OUT	13	-13	11	6	2	23	1	42	0	2	27
+ UPG IN	13	0	13	19	11	34	2	44	1	3	40
- XT OUT	0	0	0	19	6	28	0	44	1	2	7
NET RESULT	0	0	0	19	0	28	0	44	0	2	0
AUTHORIZED	0	0		19		28		44		2	93
SKILL 6											
ENTERING	-	0	-	151	-	483	-	573	-	90	-
- SEPS	0	0	22	129	84	399	34	539	14	76	154
(EXP)	0	0	22	129	84	399	34	539	14	76	154
- UPG OUT	105	-105	83	46	28	371	9	530	0	76	225
+ UPG IN	105	0	105	151	83	454	28	558	9	85	330
+ TT IN	0	0	0	151	1	455	0	558	0	85	1
NET RESULT	0	0	0	151	-28	455	-15	558	-5	85	-48
AUTHORIZED	0	0		151		483		573		90	1297
SKILL 7											
ENTERING	-	0	-	23	-	67	-	95	-	17	-
- SEPS	0	0	4	19	12	55	6	89	0	17	22
(EXP)	0	0	4	19	12	55	6	89	0	17	22
- UPG OUT	16	-16	12	7	4	51	1	88	0	17	33
+ UPG IN	16	0	16	23	12	63	4	92	1	18	49
NET RESULT	0	0	0	23	-4	63	-3	92	1	18	-6
AUTHORIZED	0	0		23		67		95		17	202

FIGURE 4 (continued)

SKILL 8											
ENTERING	-	0	-	64	-	151	-	202	-	31	-
- SEPS	0	0	9	55	26	125	11	191	3	28	49
(EXPI)	0	0	9	55	26	125	11	191	3	28	49
- UPG OUT	44	-44	36	19	9	116	3	188	0	28	92
+ UPG IN	44	0	44	63	36	152	9	197	3	31	136
NET RESULT	0	0	-1	63	1	152	-5	197	0	31	-5
AUTHORIZED	0	0	-	64	-	151	-	202	-	31	-
SKILL 9											
ENTERING	-	0	-	31	-	155	-	151	-	20	-
- SEPS	0	0	4	27	27	128	9	142	0	20	40
(EXPI)	0	0	4	27	27	128	9	142	0	20	40
- UPG OUT	22	-22	17	10	9	119	2	140	0	20	50
+ UPG IN	22	0	22	32	17	136	9	149	2	22	72
NET RESULT	0	0	1	32	-19	136	-2	149	2	22	-18
AUTHORIZED	0	0	-	31	-	155	-	151	-	20	-
SKILL 10											
ENTERING	-	0	-	67	-	638	-	553	-	41	-
- SEPS	0	0	10	57	114	524	34	519	4	37	162
(EXPI)	0	0	10	57	114	524	34	519	4	37	162
- UPG OUT	47	-47	37	20	37	487	8	511	0	37	129
+ UPG IN	47	0	47	67	37	524	37	548	8	45	176
+ TT IN	0	0	0	67	1	525	0	548	0	45	1
NET RESULT	0	0	0	67	-113	525	-5	548	4	45	-114
AUTHORIZED	0	0	-	67	-	638	-	553	-	41	-
SKILL 11											
ENTERING	-	0	-	0	-	16	-	31	-	0	-
- SEPS	0	0	0	0	3	13	1	30	0	0	4
(EXPI)	0	0	0	0	3	13	1	30	0	0	4
- UPG OUT	0	0	0	0	1	12	1	29	0	0	2
+ UPG IN	0	0	0	0	0	12	1	30	1	1	2
NET RESULT	0	0	0	0	-4	12	-1	30	1	1	-4
AUTHORIZED	0	0	-	0	-	16	-	31	-	0	-

FIGURE 4 (continued)

SKILL 12											
ENTERING	-	0	-	30	-	212	-	212	-	15	469
- SEPS	0	0	4	26	37	175	11	201	0	15	417
(EXP)	0	0	4	26	37	175	11	201	0	15	417
- UPG OUT	21	-21	16	10	12	163	3	198	0	15	365
+ UPG IN	21	0	21	31	16	179	12	210	3	18	438
NET RESULT	0	0	1	31	-33	179	-2	210	3	18	438
AUTHORIZED	0	0	30	30		212		212		15	469

SKILL 13											
ENTERING	-	0	-	76	-	439	-	394	-	60	969
- SEPS	0	0	11	65	76	363	24	370	10	50	848
(EXP)	0	0	11	65	76	363	24	370	10	50	848
- UPG OUT	53	-53	42	23	26	337	6	364	0	50	721
+ UPG IN	53	0	53	76	42	379	26	390	6	56	901
NET RESULT	0	0	0	76	-60	379	-4	390	-4	56	901
AUTHORIZED	0	0	76	76		439		394		60	969

SKILL 14											
ENTERING	-	0	-	16	-	59	-	49	-	0	124
- SEPS	0	0	2	14	10	49	1	48	0	0	111
(EXP)	0	0	2	14	10	49	1	48	0	0	111
- UPG OUT	11	-11	9	5	4	45	1	47	0	0	86
+ UPG IN	11	0	11	16	9	54	4	51	1	1	122
NET RESULT	0	0	0	16	-5	54	2	51	1	1	122
AUTHORIZED	0	0	16	16		59		49		0	124

SKILL 15											
ENTERING	-	0	-	8	-	148	-	167	-	21	344
- SEPS	0	0	1	7	25	123	10	157	1	20	307
(EXP)	0	0	1	7	25	123	10	157	1	20	307
- UPG OUT	6	-6	4	3	9	114	3	154	0	20	285
+ UPG IN	6	0	6	9	4	118	9	163	3	23	313
NET RESULT	0	0	1	9	-30	118	-4	163	2	23	313
AUTHORIZED	0	0	8	8		148		167		21	344

FIGURE 4 (continued)

SKILL 16												
ENTERING	-	0	-	38	-	217	-	200	-	21	-	476
- SEPS	0	0	6	32	38	179	11	189	1	20	56	420
(EXP)	0	0	6	32	38	179	11	189	1	20	56	420
- UPG OUT	26	-26	21	11	13	166	3	186	0	20	63	357
+ UPG IN	26	0	26	37	21	187	13	199	3	23	89	446
NET RESULT	0	0	-1	37	-30	187	-1	199	2	23	-30	446
AUTHORIZED	0	0	38	38	217	217		200		21		476

SKILL 17												
ENTERING	-	0	-	6	-	25	-	16	-	0	-	47
- SEPS	0	0	0	6	3	22	0	16	0	0	3	44
(EXP)	0	0	0	6	3	22	0	16	0	0	3	44
- UPG OUT	4	-4	4	2	2	20	0	16	0	0	10	34
+ UPG IN	4	0	4	6	4	24	2	18	0	0	14	48
- XT OUT	0	0	0	6	0	24	2	16	0	0	2	46

NET RESULT	0	0	0	6	-1	24	0	16	0	0	-1	46
AUTHORIZED	0	0	6	6	25	25		16		0		47

SKILL 18												
ENTERING	-	0	-	9	-	73	-	55	-	0	-	137
- SEPS	0	0	1	8	12	61	3	52	0	0	16	121
(EXP)	0	0	1	8	12	61	3	52	0	0	16	121
- UPG OUT	6	-6	5	3	4	57	1	51	0	0	16	105
+ UPG IN	6	0	6	9	5	62	4	55	1	1	22	127
NET RESULT	0	0	0	9	-11	62	0	55	1	1	-10	127
AUTHORIZED	0	0	9	9	73	73		55		0		137

SKILL 19												
ENTERING	-	0	-	9	-	40	-	27	-	8	-	84
- SEPS	0	0	1	8	7	33	1	26	0	8	9	75
(EXP)	0	0	1	8	7	33	1	26	0	8	9	75
- UPG OUT	6	-6	5	3	2	31	0	26	0	8	13	62
+ UPG IN	6	0	6	9	5	36	2	28	0	8	19	81

NET RESULT	0	0	0	9	-4	36	1	28	0	8	-3	81
AUTHORIZED	0	0	9	9	40	40		27		8		84

FIGURE 4 (continued)

SKILL 20												
ENTERING	-	0	-	7	-	132	-	85	-	4	-	228
- SEPS	0	0	1	6	22	110	4	81	0	4	27	201
(EXP)	0	0	1	6	22	110	4	81	0	4	27	201
- UPG OUT	5	-5	4	2	8	102	1	80	0	4	18	183
+ UPG IN	5	0	5	7	4	106	8	88	1	5	23	206
NET RESULT	0	0	0	7	-26	106	3	88	1	5	-22	206
AUTHORIZED	0	0	0	7		132		85		4		228
SKILL 21												
ENTERING	-	0	-	75	-	338	-	181	-	28	-	622
- SEPS	0	0	11	64	59	279	10	171	3	25	83	539
(EXP)	0	0	11	64	59	279	10	171	3	25	83	539
- UPG OUT	52	-52	41	23	20	259	3	168	0	25	116	423
+ UPG IN	52	0	52	75	41	300	20	188	3	28	168	591
NET RESULT	0	0	0	75	-38	300	7	188	0	28	-31	591
AUTHORIZED	0	0	0	75		338		181		28		622
SKILL 22												
ENTERING	-	0	-	90	-	708	-	633	-	58	-	1489
- SEPS	0	0	13	77	126	582	40	593	10	48	189	1300
(EXP)	0	0	13	77	126	582	40	593	10	48	189	1300
- UPG OUT	63	-63	50	27	42	540	10	583	0	48	165	1135
+ UPG IN	63	0	63	90	50	590	42	625	10	58	228	1363
NET RESULT	0	0	0	90	-118	590	-8	625	0	58	-126	1363
AUTHORIZED	0	0	0	90		708		633		58		1489
SKILL 23												
ENTERING	-	0	-	1	-	7	-	9	-	0	-	17
- SEPS	0	0	0	1	1	6	0	9	0	0	1	16
(EXP)	0	0	0	1	1	6	0	9	0	0	1	16
- UPG OUT	1	-1	1	0	0	6	0	9	0	0	2	14
+ UPG IN	1	0	1	1	1	7	0	9	0	0	3	17
NET RESULT	0	0	0	1	0	7	0	9	0	0	0	17
AUTHORIZED	0	0	0	1		7		9		0		17

FIGURE 4 (continued)

SKILL 24													
ENTERING	-	0	-	1	1	1	8	-	11	0	0	-	20
- SEPS	0	0	0	1	1	7	7	0	11	0	0	1	19
(EXP)	0	0	0	1	1	7	7	0	11	0	0	1	19
- UPG OUT	1	-1	1	0	1	6	6	0	11	0	0	3	16
+ UPG IN	1	0	1	1	1	7	7	1	12	0	0	4	20
- XT OUT	0	0	0	1	0	7	7	1	11	0	0	1	19
NET RESULT	0	0	0	1	-1	7	7	0	11	0	0	-1	19
AUTHORIZED	0	0	0	1	1	8	8		11		0		20
SKILL 25													
ENTERING	-	0	-	2	2	5	5	-	12	-	0	-	19
- UPG OUT	1	-1	1	1	0	5	5	0	12	0	0	2	17
+ UPG IN	1	0	1	2	1	6	6	0	12	0	0	3	20
- XT OUT	0	0	0	2	1	5	5	0	12	0	0	1	19
NET RESULT	0	0	0	2	0	5	5	0	12	0	0	0	19
AUTHORIZED	0	0	0	2	2	5	5		12		0		19
SKILL 26													
ENTERING	-	0	-	77	77	411	411	-	290	-	25	-	803
- SEPS	0	0	11	66	72	339	339	17	273	2	23	102	701
(EXP)	0	0	11	66	72	339	339	17	273	2	23	102	701
- UPG OUT	53	-53	42	24	24	315	315	4	269	0	23	123	578
+ UPG IN	53	0	53	77	42	357	357	24	293	4	27	176	754
NET RESULT	0	0	0	77	-54	357	357	3	293	2	27	-49	754
AUTHORIZED	0	0	0	77	77	411	411		290		25		803
SKILL 27													
ENTERING	-	0	-	290	290	1730	1730	-	1087	-	94	-	3201
- SEPS	0	0	41	249	307	1423	1423	71	1016	14	80	433	2768
(EXP)	0	0	41	249	307	1423	1423	71	1016	14	80	433	2768
- UPG OUT	201	-201	161	88	101	1322	1322	16	1000	0	80	479	2289
+ UPG IN	201	0	201	289	161	1483	1483	101	1101	16	96	680	2969
+ TT IN	0	0	0	289	5	1488	1488	3	1104	2	98	10	2979
NET RESULT	0	0	-1	289	-242	1488	1488	17	1104	4	98	-222	2979
AUTHORIZED	0	0	0	290	290	1730	1730		1087		94		3201

FIGURE 4 (continued)

SKILL 28												
ENTERING	-	0	-	24	-	162	-	122	-	23	-	331
- SEPS	0	0	4	20	27	135	6	116	2	21	39	292
(EXPI)	0	0	4	20	27	135	6	116	2	21	39	292
- UPG OUT	17	-17	12	8	10	125	2	114	0	21	41	251
+ UPG IN	17	0	17	25	12	137	10	124	2	23	58	309
NET RESULT	0	0	1	25	-25	137	2	124	0	23	-22	309
AUTHORIZED	0	0		24		162		122		23		331

SKILL 29												
ENTERING	-	0	-	171	-	1192	-	899	-	167	-	2429
- SEPS	0	0	25	146	214	978	59	840	22	145	320	2109
(EXPI)	0	0	25	146	214	978	59	840	22	145	320	2109
- UPG OUT	119	-119	94	52	70	908	14	826	0	145	297	1812
+ UPG IN	119	0	119	171	94	1002	70	896	14	159	416	2228
+ TT IN	0	0	0	171	3	1005	0	896	1	160	4	2232
NET RESULT	0	0	0	171	-187	1005	-3	896	-7	160	-197	2232
AUTHORIZED	0	0		171		1192		899		167		2429

SKILL 30												
ENTERING	-	0	-	58	-	344	-	246	-	0	-	648
- SEPS	0	0	9	49	60	284	12	234	0	0	81	567
(EXPI)	0	0	9	49	60	284	12	234	0	0	81	567
- UPG OUT	40	-40	32	17	20	264	4	230	0	0	96	471
+ UPG IN	40	0	40	57	32	296	20	250	4	4	136	607
NET RESULT	0	0	-1	57	-48	296	4	250	4	4	-41	607
AUTHORIZED	0	0		58		344		246		0		648

SKILL 31												
ENTERING	-	0	-	3	-	21	-	25	-	40	-	89
- SEPS	0	0	0	3	3	18	1	24	4	36	8	81
(EXPI)	0	0	0	3	3	18	1	24	4	36	8	81
- UPG OUT	2	-2	2	1	1	17	0	24	0	36	5	76
+ UPG IN	2	0	2	3	2	19	1	25	0	36	7	83
NET RESULT	0	0	0	3	-2	19	0	25	-4	36	-6	83
AUTHORIZED	0	0		3		21		25		40		89

FIGURE 4 (continued)

SKILL 32													
ENTERING	-	0	-	119	-	441	-	254	-	33	-	847	
- SEPS	0	0	17	102	76	365	13	241	3	30	109	738	
(EXP)	0	0	17	102	76	365	13	241	3	30	109	738	
- UPG OUT	83	-83	65	37	26	339	4	237	0	30	178	560	
+ UPG IN	83	0	83	120	65	404	26	263	4	34	261	821	
NET RESULT	0	0	1	120	-37	404	9	263	1	34	-26	821	
AUTHORIZED	0	0		119		441		254		33		847	
SKILL 33													
ENTERING	-	0	-	195	-	1151	-	508	-	98	-	1952	
- SEPS	0	0	28	167	205	946	29	479	14	84	276	1676	
(EXP)	0	0	28	167	205	946	29	479	14	84	276	1676	
- UPG OUT	135	-135	108	59	67	879	8	471	0	84	318	1358	
+ UPG IN	135	0	135	194	108	987	67	538	8	92	453	1811	
NET RESULT	0	0	-1	194	-164	987	30	538	-6	92	-141	1811	
AUTHORIZED	0	0		195		1151		508		98		1952	
SKILL 34													
ENTERING	-	0	-	65	-	237	-	227	-	24	-	553	
- SEPS	0	0	9	56	42	195	12	215	2	22	65	488	
(EXP)	0	0	9	56	42	195	12	215	2	22	65	488	
- UPG OUT	45	-45	36	20	14	181	3	212	0	22	98	390	
+ UPG IN	45	0	45	65	36	217	14	226	3	25	143	533	
NET RESULT	0	0	0	65	-20	217	-1	226	1	25	-20	533	
AUTHORIZED	0	0		65		237		227		24		553	
SKILL 35													
ENTERING	-	0	-	51	-	175	-	332	-	55	-	613	
- SEPS	0	0	6	45	30	145	18	314	9	46	63	550	
(EXP)	0	0	6	45	30	145	18	314	9	46	63	550	
- UPG OUT	35	-35	29	16	10	135	5	309	0	46	79	471	
+ UPG IN	35	0	35	51	29	164	10	319	5	51	114	585	
NET RESULT	0	0	0	51	-11	164	-13	319	-4	51	-28	585	
AUTHORIZED	0	0		51		175		332		55		613	

FIGURE 4 (continued)

SKILL 36											
ENTERING	-	0	-	77	-	366	-	241	-	19	703
- SEPS	0	0	11	66	64	302	12	229	0	19	616
(EXP)	0	0	11	66	64	302	12	229	0	19	616
- UPG OUT	53	-53	42	24	22	280	4	225	0	19	495
+ UPG IN	53	0	53	77	42	322	22	247	4	23	669
NET RESULT	0	0	0	77	-44	322	6	247	4	23	669
AUTHORIZED	0	0	0	77	-	366	-	241	-	19	703
SKILL 37											
ENTERING	-	0	-	159	-	600	-	425	-	36	1220
- SEPS	0	0	22	137	106	494	24	401	3	33	155
(EXP)	0	0	22	137	106	494	24	401	3	33	155
- UPG OUT	110	-110	88	49	35	459	6	395	0	33	1065
+ UPG IN	110	0	110	159	88	547	35	430	6	39	1175
NET RESULT	0	0	0	159	-53	547	5	430	3	39	1175
AUTHORIZED	0	0	0	159	-	600	-	425	-	36	1220
SKILL 38											
ENTERING	-	0	-	184	-	501	-	474	-	61	1220
- SEPS	0	0	26	158	88	413	29	445	10	51	153
(EXP)	0	0	26	158	88	413	29	445	10	51	153
- UPG OUT	128	-128	102	56	29	384	7	438	0	51	1067
+ UPG IN	128	0	128	184	102	486	29	467	7	58	1195
NET RESULT	0	0	0	184	-15	486	-7	467	-3	58	1195
AUTHORIZED	0	0	0	184	-	501	-	474	-	61	1220
SKILL 39											
ENTERING	-	0	-	92	-	340	-	171	-	12	615
- SEPS	0	0	13	79	59	281	10	161	0	12	82
(EXP)	0	0	13	79	59	281	10	161	0	12	82
- UPG OUT	64	-64	51	28	20	261	3	158	0	12	533
+ UPG IN	64	0	64	92	51	312	20	178	3	15	395
NET RESULT	0	0	0	92	-20	312	7	178	3	15	597
AUTHORIZED	0	0	0	92	-	340	-	171	-	12	615

FIGURE 4 (continued)

SKILL 40													
ENTERING	-	0	-	214	-	966	-	544	-	32	-	1756	
- SEPS	0	0	31	183	174	792	33	511	3	29	241	1515	
(EXP)	0	0	31	183	174	792	33	511	3	29	241	1515	
- UPG OUT	149	-149	118	65	57	735	8	503	0	29	332	1183	
UPG IN	149	0	149	214	118	853	57	560	8	37	481	1664	
NET RESULT	0	0	0	214	-113	853	16	560	5	37	-92	1664	
AUTHORIZED	0	0	0	214	-	966	-	544	-	32	-	1756	
SKILL 41													
ENTERING	-	0	-	54	-	322	-	226	-	11	-	613	
- SEPS	0	0	7	47	55	267	12	214	0	11	74	539	
(EXP)	0	0	7	47	55	267	12	214	0	11	74	539	
- UPG OUT	38	-38	30	17	19	248	3	211	0	11	90	449	
UPG IN	38	0	38	55	30	278	19	230	3	14	128	577	
NET RESULT	0	0	1	55	-44	278	4	230	3	14	-36	577	
AUTHORIZED	0	0	0	54	-	322	-	226	-	11	-	613	
SKILL 42													
ENTERING	-	0	-	66	-	417	-	237	-	25	-	745	
- SEPS	0	0	9	57	72	345	12	225	2	23	95	650	
(EXP)	0	0	9	57	72	345	12	225	2	23	95	650	
- UPG OUT	46	-46	37	20	25	320	4	221	0	23	112	538	
UPG IN	46	0	46	66	37	357	25	246	4	27	158	696	
NET RESULT	0	0	0	66	-60	357	9	246	2	27	-49	696	
AUTHORIZED	0	0	0	66	-	417	-	237	-	25	-	745	
SKILL 43													
ENTERING	-	0	-	345	-	1361	-	1320	-	128	-	3154	
- SEPS	0	0	48	297	242	1119	86	1234	18	110	394	2760	
(EXP)	0	0	48	297	242	1119	86	1234	18	110	394	2760	
- UPG OUT	240	-240	191	106	80	1039	20	1214	0	110	531	2229	
UPG IN	240	0	240	346	191	1230	80	1294	20	130	771	3000	
NET RESULT	0	0	1	346	-131	1230	-26	1294	2	130	-154	3000	
AUTHORIZED	0	0	0	345	-	1361	-	1320	-	128	-	3154	

FIGURE 4 (continued)

SKILL 44													
ENTERING	-	0	-	2	-	44	-	93	-	5	-	144	
- SEPS	0	0	0	2	8	36	6	87	0	5	14	130	
(EXP)	0	0	0	2	8	36	6	87	0	5	14	130	
- UPG OUT	1	-1	1	1	3	33	1	86	0	5	6	124	
+ UPG IN	1	0	1	2	1	34	3	89	1	6	7	131	
NET RESULT	0	0	0	2	-10	34	-4	89	1	6	-13	131	
AUTHORIZED	0	0	0	2		44		93		5		144	
SKILL 45													
ENTERING	-	0	-	73	-	223	-	219	-	31	-	546	
- SEPS	0	0	11	62	40	183	11	208	3	28	65	481	
(EXP)	0	0	11	62	40	183	11	208	3	28	65	481	
- UPG OUT	51	-51	39	23	13	170	3	205	0	28	106	375	
+ UPG IN	51	0	51	74	39	209	13	218	3	31	157	532	
NET RESULT	0	0	1	74	-14	209	-1	218	0	31	-14	532	
AUTHORIZED	0	0		73		223		219		31		546	
SKILL 46													
ENTERING	-	0	-	430	-	1568	-	1426	-	142	-	3566	
- SEPS	0	0	60	370	278	1290	92	1334	20	122	450	3116	
(EXP)	0	0	60	370	278	1290	92	1334	20	122	450	3116	
- UPG OUT	298	-298	238	132	92	1198	21	1313	0	122	649	2467	
+ UPG IN	298	0	298	430	238	1436	92	1405	21	143	947	3414	
NET RESULT	0	0	0	430	-132	1436	-21	1405	1	143	-152	3414	
AUTHORIZED	0	0		430		1568		1426		142		3566	
SKILL 47													
ENTERING	-	0	-	130	-	499	-	777	-	210	-	1616	
- SEPS	0	0	19	111	88	411	52	725	29	181	188	1428	
(EXP)	0	0	19	111	88	411	52	725	29	181	188	1428	
- UPG OUT	90	-90	71	40	29	382	12	713	0	181	202	1226	
+ UPG IN	90	0	90	130	71	453	29	742	12	193	292	1518	
NET RESULT	0	0	0	130	-46	453	-35	742	-17	193	-98	1518	
AUTHORIZED	0	0		130		499		777		210		1616	

FIGURE 4 (continued)

SKILL 48													
ENTERING	-	0	-	54	-	43	-	287	-	33	-	417	-
- SEPS	0	0	7	47	8	35	17	270	3	30	35	382	35
(EXP)	0	0	7	47	8	35	17	270	3	30	35	382	35
- UPG OUT	38	-38	30	17	3	32	4	266	0	30	75	307	75
+ UPG IN	38	0	38	55	30	62	3	269	4	34	113	420	113
NET RESULT	0	0	1	55	19	62	-18	269	1	34	3	420	3
AUTHORIZED	0	0		54		43		287		33		417	
SKILL 49													
ENTERING	-	0	-	466	-	2042	-	726	-	65	-	3299	-
- SEPS	0	0	67	399	363	1679	48	678	10	55	488	2811	488
(EXP)	0	0	67	399	363	1679	48	678	10	55	488	2811	488
- UPG OUT	323	-323	257	142	120	1559	11	667	0	55	711	2100	711
+ UPG IN	323	0	323	465	257	1816	120	787	11	66	1034	3134	1034
NET RESULT	0	0	-1	465	-226	1816	61	787	1	66	-165	3134	-165
AUTHORIZED	0	0		466		2042		726		65		3299	
SKILL 50													
ENTERING	-	0	-	347	-	1396	-	834	-	106	-	2683	-
- SEPS	0	0	49	298	247	1149	56	778	14	92	366	2317	366
(EXP)	0	0	49	298	247	1149	56	778	14	92	366	2317	366
- UPG OUT	241	-241	192	106	82	1067	13	765	0	92	528	1789	528
+ UPG IN	241	0	241	347	192	1259	82	847	13	105	769	2558	769
NET RESULT	0	0	0	347	-137	1259	13	847	-1	105	-125	2558	-125
AUTHORIZED	0	0		347		1396		834		106		2683	
SKILL 51													
ENTERING	-	0	-	15	-	56	-	44	-	5	-	120	-
- SEPS	0	0	2	13	9	47	1	43	0	5	12	108	12
(EXP)	0	0	2	13	9	47	1	43	0	5	12	108	12
- UPG OUT	10	-10	9	4	3	44	1	42	0	5	23	85	23
+ UPG IN	10	0	10	14	9	53	3	45	1	6	33	116	33
NET RESULT	0	0	-1	14	-3	53	1	45	1	6	-2	118	-2
AUTHORIZED	0	0		15		56		44		5		120	

FIGURE 4 (continued)

GRAND TOTAL	-	0	-	4871	-	21208	-	16538	-	2043	-	44660
ENTERING	0	0	688	4183	3736	17472	996	15542	250	1793	5670	38990
SEPS	0	0	688	4183	3736	17472	996	15542	250	1793	5670	38990
(EXP)	0	0	2693	1490	1246	16226	250	15292	0	1793	7570	31420
UPG OUT	3381	0	3381	4871	2693	18919	1246	16538	250	2043	10951	42371
UPG IN	3381	0	0	4871	10	18909	3	16535	3	2040	16	42355
XT OUT	0	0	0	4871	10	18919	3	16538	3	2043	16	42371
TT IN	0	0	0	4871	10	18919	3	16538	3	2043	16	42371
NET RESULT	0	0	0	4871	-2289	18919	0	16538	0	2043	-2289	42371
AUTHORIZED	0	0	0	4871	21208	21208	16538	16538	2043	2043	44660	44660

SKILL 52		ENTERING		SEPS		-		126		-		126		-		38		-		24		-		314	
		0		0		16		110		11		115		4		34		0		24		31		283	
(EXP)		0		0		16		110		11		115		4		34		0		24		31		283	
- UPG OUT		73		-73		56		54		15		100		1		33		0		24		145		138	
+ UPG IN		73		0		73		127		56		156		15		48		1		25		218		356	
NET RESULT		0		0		1		127		30		156		10		48		1		25		42		356	
AUTHORIZED		0		0		0		126				126				38				24				314	

SKILL 53										
ENTERING	-	0	-	66	-	64	-	18	-	16
- SEPS	0	0	0	58	6	58	0	16	0	16
(EXPI	0	0	0	58	6	58	0	16	0	16
- UPG OUT	38	-38	30	28	8	50	1	15	0	16
+ UPG IN	38	0	38	66	30	80	8	23	1	17
NET RESULT	0	0	0	66	16	80	5	23	1	17
AUTHORIZED	0	0	0	66	64	64	18	18	16	16

FIGURE 4 (continued)

SKILL 54												
ENTERING	-	0	0	53	-	53	-	53	-	74	-	31
- SEPS	0	0	7	46	5	48	12	62	0	62	24	211
(EXP)	0	0	7	46	5	48	12	62	0	62	24	187
- UPG OUT	30	-30	24	22	6	42	2	60	0	62	62	125
♦ UPG IN	30	0	30	52	24	66	6	66	2	92	92	217
NET RESULT	0	0	-1	52	13	66	-8	66	2	6	6	217
AUTHORIZED	0	0		53		53		74		31		211
SKILL 55												
ENTERING	-	0	0	124	-	123	-	26	-	13	-	286
- SEPS	0	0	16	108	11	112	4	22	0	13	31	255
(EXP)	0	0	16	108	11	112	4	22	0	13	31	255
- UPG OUT	71	-71	55	53	14	98	1	21	0	13	141	114
♦ UPG IN	71	0	71	124	55	153	14	35	1	14	212	326
NET RESULT	0	0	0	124	30	153	9	35	1	14	40	326
AUTHORIZED	0	0		124		123		26		13		286
SKILL 56												
ENTERING	-	0	0	24	-	23	-	5	-	3	-	55
- SEPS	0	0	3	21	2	21	0	5	0	3	5	50
(EXP)	0	0	3	21	2	21	0	5	0	3	5	50
- UPG OUT	14	-14	11	10	2	19	0	5	0	3	27	23
♦ UPG IN	14	0	14	24	11	30	2	7	0	3	41	64
NET RESULT	0	0	0	24	7	30	2	7	0	3	9	64
AUTHORIZED	0	0		24		23		5		3		55
SKILL 57												
ENTERING	-	0	0	40	-	40	-	56	-	23	-	159
- SEPS	0	0	5	35	3	37	10	46	0	23	18	141
(EXP)	0	0	5	35	3	37	10	46	0	23	18	141
- UPG OUT	23	-23	18	17	5	32	1	45	0	23	47	94
♦ UPG IN	23	0	23	40	18	50	5	50	1	24	70	164
NET RESULT	0	0	0	40	10	50	-6	50	1	24	5	164
AUTHORIZED	0	0		40		40		56		23		159

FIGURE 4 (continued)

SKILL 58													
ENTERING	-	0	-	44	-	41	-	15	-	7	-	107	
- SEPS	0	0	6	38	3	38	2	13	0	7	11	96	
(EXPI)	0	0	6	38	3	38	2	13	0	7	11	96	
- UPG OUT	25	-25	20	18	5	33	0	13	0	7	50	46	
+ UPG IN	25	0	25	43	20	53	5	18	0	7	75	121	
NET RESULT	0	0	-1	43	12	53	3	18	0	7	14	121	
AUTHORIZED	0	0		44		41		15		7		107	
SKILL 59													
ENTERING	-	0	-	45	-	45	-	42	-	6	-	138	
- SEPS	0	0	6	39	5	40	5	37	0	6	16	122	
(EXPI)	0	0	6	39	5	40	5	37	0	6	16	122	
- UPG OUT	26	-26	20	19	5	35	1	36	0	6	52	70	
+ UPG IN	26	0	26	45	20	55	5	41	1	7	78	148	
NET RESULT	0	0	0	45	10	55	-1	41	1	7	10	148	
AUTHORIZED	0	0		45		45		42		6		138	
SKILL 60													
ENTERING	-	0	-	32	-	28	-	28	-	4	-	92	
- SEPS	0	0	4	28	2	26	4	24	0	4	10	82	
(EXPI)	0	0	4	28	2	26	4	24	0	4	10	82	
- UPG OUT	18	-18	14	14	3	23	1	23	0	4	36	46	
+ UPG IN	18	0	18	32	14	37	3	26	1	5	54	100	
NET RESULT	0	0	0	32	9	37	-2	26	1	5	8	100	
AUTHORIZED	0	0		32		28		28		4		92	
SKILL 61													
ENTERING	-	0	-	34	-	34	-	8	-	4	-	80	
- SEPS	0	0	5	29	2	32	0	8	0	4	7	73	
(EXPI)	0	0	5	29	2	32	0	8	0	4	7	73	
- UPG OUT	20	-20	15	14	4	28	0	8	0	4	39	34	
+ UPG IN	20	0	20	34	15	43	4	12	0	4	59	93	
NET RESULT	0	0	0	34	9	43	4	12	0	4	13	93	
AUTHORIZED	0	0		34		34		8		4		80	

FIGURE 4 (continued)

SKILL 62													
ENTERING	-	0	-	57	-	54	-	10	-	8	-	129	
- SEPS	0	0	7	50	4	50	0	10	0	8	11	118	
(EXP)	0	0	7	50	4	50	0	10	0	8	11	118	
- UPG OUT	33	-33	26	24	6	44	0	10	0	8	65	53	
+ UPG IN	33	0	33	57	26	70	6	16	0	8	98	151	
NET RESULT	0	0	0	57	16	70	6	16	0	8	22	151	
AUTHORIZED	0	0	0	57	54			10		8		129	
SKILL 63													
ENTERING	-	0	-	26	-	25	-	10	-	0	-	61	
- SEPS	0	0	3	23	2	23	0	10	0	0	5	56	
(EXP)	0	0	3	23	2	23	0	10	0	0	5	56	
- UPG OUT	15	-15	12	11	3	20	0	10	0	0	30	26	
+ UPG IN	15	0	15	26	12	32	3	13	0	0	45	71	
NET RESULT	0	0	0	26	7	32	3	13	0	0	10	71	
AUTHORIZED	0	0	0	26	25			10		0		61	
SKILL 64													
ENTERING	-	0	-	37	-	36	-	9	-	0	-	82	
- SEPS	0	0	5	32	2	34	0	9	0	0	7	75	
(EXP)	0	0	5	32	2	34	0	9	0	0	7	75	
- UPG OUT	21	-21	17	15	4	30	0	9	0	0	42	33	
+ UPG IN	21	0	21	36	17	47	4	13	0	0	63	96	
NET RESULT	0	0	-1	36	11	47	4	13	0	0	14	96	
AUTHORIZED	0	0	0	37	36			9		0		82	
SKILL 65													
ENTERING	-	0	-	9	-	9	-	2	-	0	-	20	
- SEPS	0	0	1	8	0	9	0	2	0	0	1	19	
(EXP)	0	0	1	8	0	9	0	2	0	0	1	19	
- UPG OUT	5	-5	4	4	1	8	0	2	0	0	10	9	
+ UPG IN	5	0	5	9	4	12	1	3	0	0	15	24	
NET RESULT	0	0	0	9	3	12	1	3	0	0	4	24	
AUTHORIZED	0	0	0	9	9			2		0		20	

FIGURE 4 (continued)

SKILL 66												
ENTERING	-	0	0	-	30	-	27	-	9	-	3	69
- SEPS	0	0	3	27	2	25	0	9	0	0	3	64
(EXP)	0	0	3	27	2	25	0	9	0	0	3	64
- UPG OUT	17	-17	14	13	3	22	0	9	0	0	3	30
+ UPG IN	17	0	17	30	14	36	3	12	0	0	3	81
NET RESULT	0	0	0	30	9	36	3	12	0	0	3	81
AUTHORIZED	0	0	0	30	30	27		9			3	69

SKILL 67												
ENTERING	-	0	0	-	17	-	24	-	19	-	2	62
- SEPS	0	0	2	15	2	22	2	17	0	0	2	56
(EXP)	0	0	2	15	2	22	2	17	0	0	2	56
- UPG OUT	10	-10	8	7	3	19	1	16	0	0	2	34
+ UPG IN	10	0	10	17	8	27	3	19	1	1	3	66
NET RESULT	0	0	0	17	3	27	0	19	1	1	3	66
AUTHORIZED	0	0	0	17	24			19			2	62

SKILL 68												
ENTERING	-	0	0	-	41	-	50	-	20	-	3	114
- SEPS	0	0	6	35	4	46	2	18	0	0	3	102
(EXP)	0	0	6	35	4	46	2	18	0	0	3	102
- UPG OUT	24	-24	18	17	6	40	1	17	0	0	3	53
+ UPG IN	24	0	24	41	18	58	6	23	1	1	4	126
NET RESULT	0	0	0	41	8	58	3	23	1	1	4	126
AUTHORIZED	0	0	0	41	50			20			3	114

SKILL 69												
ENTERING	-	0	0	-	75	-	361	-	196	-	120	752
- SEPS	0	0	9	66	38	323	35	161	7	7	113	663
(EXP)	0	0	9	66	38	323	35	161	7	7	113	663
- UPG OUT	43	-43	34	32	41	282	5	156	0	0	113	540
+ UPG IN	43	0	43	75	34	316	41	197	5	5	118	706
NET RESULT	0	0	0	75	-45	316	1	197	-2	-2	118	706
AUTHORIZED	0	0	0	75	361			196			120	752

FIGURE 4 (continued)

SKILL 70											
ENTERING	-	0	-	1	-	205	-	161	-	96	-
- SEPS	0	0	0	1	19	186	28	133	5	91	52
(EXPI)	0	0	0	1	19	186	28	133	5	91	52
- UPG OUT	1	-1	1	0	24	162	4	129	0	91	30
UPG IN	1	0	1	1	1	163	24	153	4	95	31
NET RESULT	0	0	0	1	-42	163	-8	153	-1	95	-51
AUTHORIZED	0	0	0	1		205		161		96	
SKILL 71											
ENTERING	-	0	-	0	-	18	-	2	-	1	-
- SEPS	0	0	0	0	1	17	0	2	0	1	1
(EXPI)	0	0	0	0	1	17	0	2	0	1	1
- UPG OUT	0	0	0	0	2	15	0	2	0	1	2
UPG IN	0	0	0	0	0	15	2	4	0	1	2
NET RESULT	0	0	0	0	-3	15	2	4	0	1	-1
AUTHORIZED	0	0	0	0		18		2		1	
SKILL 72											
ENTERING	-	0	-	177	-	385	-	269	-	201	-
- SEPS	0	0	23	154	38	347	47	222	13	188	121
(EXPI)	0	0	23	154	38	347	47	222	13	188	121
- UPG OUT	102	-102	79	75	44	303	7	215	0	188	232
UPG IN	102	0	102	177	79	382	44	259	7	195	334
NET RESULT	0	0	0	177	-3	382	-10	259	-6	195	-19
AUTHORIZED	0	0	0	177		385		269		201	
SKILL 73											
ENTERING	-	0	-	57	-	113	-	78	-	44	-
- SEPS	0	0	7	50	10	103	12	66	0	44	29
(EXPI)	0	0	7	50	10	103	12	66	0	44	29
- UPG OUT	33	-33	26	24	13	90	2	64	3	44	74
UPG IN	33	0	33	57	26	116	13	77	2	46	107
NET RESULT	0	0	0	57	3	116	-1	77	2	46	4
AUTHORIZED	0	0	0	57		113		78		44	

FIGURE 4 (continued)

SKILL 74												
ENTERING	-	0	-	23	-	127	-	62	-	30	-	242
- SEPS	0	0	2	21	11	116	10	52	0	30	23	219
(EXP)	0	0	2	21	11	116	10	52	0	30	23	219
- UPG OUT	13	-13	11	10	15	101	2	50	0	30	41	178
+ UPG IN	13	0	13	23	11	112	15	65	2	32	54	232
NET RESULT	0	0	0	23	-15	112	3	65	2	32	-10	232
AUTHORIZED	0	0	0	23		127		62		30		242

SKILL 75												
ENTERING	-	0	-	50	-	108	-	64	-	65	-	287
- SEPS	0	0	6	44	10	98	10	54	4	61	30	257
(EXP)	0	0	6	44	10	98	10	54	4	61	30	257
- UPG OUT	29	-29	22	22	13	85	2	52	0	61	66	191
+ UPG IN	29	0	29	51	22	107	13	65	2	63	95	286
NET RESULT	0	0	1	51	-1	107	1	65	-2	63	-1	286
AUTHORIZED	0	0		50		108		64		65		287

SKILL 76												
ENTERING	-	0	-	0	-	17	-	3	-	2	-	22
- SEPS	0	0	0	0	1	16	0	3	0	2	1	21
(EXP)	0	0	0	0	1	16	0	3	0	2	1	21
- UPG OUT	0	0	0	0	2	14	0	3	0	2	2	19
+ UPG IN	0	0	0	0	0	14	2	5	0	2	2	21
NET RESULT	0	0	0	0	-3	14	2	5	0	2	-1	21
AUTHORIZED	0	0	0	0		17		3		2		22

SKILL 77												
ENTERING	-	0	-	7	-	57	-	34	-	25	-	123
- SEPS	0	0	1	6	6	51	4	30	0	25	11	112
(EXP)	0	0	1	6	6	51	4	30	0	25	11	112
- UPG OUT	4	-4	3	3	7	44	1	29	0	25	15	97
+ UPG IN	4	0	4	7	3	47	7	36	1	26	19	116
NET RESULT	0	0	0	7	-10	47	2	36	1	26	-7	116
AUTHORIZED	0	0	0	7		57		34		25		123

FIGURE 4 (continued)

SKILL 78												
ENTERING	-	0	-	26	-	94	-	57	-	51	-	228
- SEPS	0	0	3	23	9	85	10	47	2	49	24	204
(EXP)	0	0	3	23	9	85	10	47	2	49	24	204
- UPG OUT	15	-15	12	11	11	74	1	46	0	49	39	165
UPG IN	15	0	15	26	12	86	11	57	1	50	54	219
NET RESULT	0	0	0	26	-8	86	0	57	-1	50	-9	219
AUTHORIZED	0	0	0	26	-	94	-	57	-	51	-	228
SKILL 79												
ENTERING	-	0	-	0	-	20	-	4	-	2	-	26
- SEPS	0	0	0	0	1	19	0	4	0	2	1	25
(EXP)	0	0	0	0	1	19	0	4	0	2	1	25
- UPG OUT	0	0	0	0	2	17	0	4	0	2	2	23
UPG IN	0	0	0	0	0	17	2	6	0	2	2	25
NET RESULT	0	0	0	0	-3	17	2	6	0	2	-1	25
AUTHORIZED	0	0	0	0	-	20	-	4	-	2	-	26
SKILL 80												
ENTERING	-	0	-	31	-	99	-	65	-	87	-	282
- SEPS	0	0	3	28	9	90	10	55	4	83	26	256
(EXP)	0	0	3	28	9	90	10	55	4	83	26	256
- UPG OUT	18	-18	14	14	12	78	2	53	0	83	46	210
UPG IN	18	0	18	32	14	92	12	65	2	85	64	274
NET RESULT	0	0	1	32	-7	92	0	65	-2	85	-8	274
AUTHORIZED	0	0	1	31	-	99	-	65	-	87	-	282
SKILL 81												
ENTERING	-	0	-	0	-	1	-	1	-	17	-	19
NET RESULT	0	0	0	0	0	1	0	1	0	17	0	19
AUTHORIZED	0	0	0	0	0	1	0	1	0	17	0	19

FIGURE 4 (continued)

SKILL 82													
ENTERING	-	0	-	48	-	113	-	53	-	41	-	255	
- SEPS	0	0	4	42	10	103	9	44	0	41	25	230	
(EXP)	0	0	6	42	10	103	9	44	0	41	23	230	
- UPG OUT	28	-28	22	20	13	90	1	43	0	41	64	166	
+ UPG IN	28	0	28	48	22	112	13	56	1	42	92	258	
NET RESULT	0	0	0	48	-1	112	3	56	1	42	3	258	
AUTHORIZED	0	0	0	48		113		53		41		255	
SKILL 83													
ENTERING	-	0	-	25	-	119	-	99	-	110	-	353	
- SEPS	0	0	3	22	11	108	16	83	6	104	36	317	
(EXP)	0	0	3	22	11	108	16	83	6	104	36	317	
- UPG OUT	14	-14	11	11	14	94	3	80	0	104	42	275	
+ UPG IN	14	0	14	25	11	105	14	94	3	107	56	331	
NET RESULT	0	0	0	25	-14	105	-5	94	-3	107	-22	331	
AUTHORIZED	0	0	0	25		119		99		110		353	
SKILL 84													
ENTERING	-	0	-	0	-	19	-	27	-	30	-	76	
- SEPS	0	0	0	0	2	17	4	23	0	30	6	70	
(EXP)	0	0	0	0	2	17	4	23	0	30	6	70	
- UPG OUT	0	0	0	0	2	15	1	22	0	30	3	67	
+ UPG IN	0	0	0	0	0	15	2	24	1	31	3	70	
NET RESULT	0	0	0	0	-4	15	-3	24	1	31	-6	70	
AUTHORIZED	0	0	0	0		19		27		30		76	
SKILL 85													
ENTERING	-	0	-	33	-	142	-	81	-	69	-	325	
- SEPS	0	0	5	28	13	129	12	69	4	65	34	291	
(EXP)	0	0	5	28	13	129	12	69	4	65	34	291	
- UPG OUT	19	-19	14	14	17	112	2	67	0	65	52	239	
+ UPG IN	19	0	19	33	14	126	17	84	2	67	71	310	
NET RESULT	0	0	0	33	-16	126	3	84	-2	67	-15	310	
AUTHORIZED	0	0	0	33		142		81		69		325	

FIGURE 4 (continued)

SKILL 86													
ENTERING	-	0	-	20	-	35	-	25	-	58	-	138	-
- SEPS	0	0	2	18	2	33	3	22	2	56	9	129	9
(EXP)	0	0	2	18	2	33	3	22	2	56	9	129	9
- UPG OUT	11	-11	9	9	4	29	1	21	0	56	25	104	25
+ UPG IN	11	0	11	20	9	38	4	25	1	57	36	140	36
NET RESULT	0	0	0	20	3	38	0	25	-1	57	2	140	2
AUTHORIZED	0	0	0	20	35	35	25	25	58	58	138	138	58
SKILL 87													
ENTERING	-	0	-	24	-	47	-	63	-	30	-	164	-
- SEPS	0	0	3	21	5	42	10	53	0	30	18	146	18
(EXP)	0	0	3	21	5	42	10	53	0	30	18	146	18
- UPG OUT	14	-14	11	10	5	37	2	51	0	30	32	114	32
+ UPG IN	14	0	14	24	11	48	5	56	2	32	46	160	46
NET RESULT	0	0	0	24	1	48	-7	56	2	32	-4	160	-4
AUTHORIZED	0	0	0	24	47	47	63	63	30	30	164	164	30
SKILL 88													
ENTERING	-	0	-	0	-	121	-	206	-	120	-	447	-
- SEPS	0	0	0	0	11	110	36	170	7	113	54	393	54
(EXP)	0	0	0	0	11	110	36	170	7	113	54	393	54
- UPG OUT	0	0	0	0	14	96	5	165	0	113	19	374	19
+ UPG IN	0	0	0	0	0	96	14	179	5	118	19	393	19
NET RESULT	0	0	0	0	-25	96	-27	179	-2	118	-54	393	-54
AUTHORIZED	0	0	0	0	121	121	206	206	120	120	447	447	120
SKILL 89													
ENTERING	-	0	-	125	-	192	-	104	-	53	-	474	-
- SEPS	0	0	16	109	19	173	16	88	2	51	53	421	53
(EXP)	0	0	16	109	19	173	16	88	2	51	53	421	53
- UPG OUT	72	-72	56	53	22	151	3	85	0	51	153	268	153
+ UPG IN	72	0	72	125	56	207	22	107	3	54	225	493	225
NET RESULT	0	0	0	125	15	207	3	107	1	54	19	493	19
AUTHORIZED	0	0	0	125	192	192	104	104	53	53	474	474	53

FIGURE 4 (continued)

SKILL 90												
ENTERING	-	0	-	0	-	102	-	47	-	40	-	189
- SEPS	0	0	0	0	9	93	6	41	0	40	15	174
(EXP)	0	0	0	0	9	93	6	41	0	40	15	174
- UPG OUT	0	0	0	0	12	81	1	40	0	40	13	161
+ UPG IN	0	0	0	0	0	81	12	52	1	41	13	174
NET RESULT	0	0	0	0	-21	81	5	52	1	41	-15	174
AUTHORIZED	0	0	0	0	0	102	0	47	0	40	0	189
SKILL 91												
ENTERING	-	0	-	0	-	23	-	21	-	4	-	48
- SEPS	0	0	0	0	2	21	3	18	0	4	5	43
(EXP)	0	0	0	0	2	21	3	18	0	4	5	43
- UPG OUT	0	0	0	0	2	19	1	17	0	4	3	40
+ UPG IN	0	0	0	0	0	19	2	19	1	5	3	43
NET RESULT	0	0	0	0	-4	19	-2	19	1	5	-5	43
AUTHORIZED	0	0	0	0	0	23	0	21	0	4	0	48
GRAND TOTAL												
ENTERING	-	0	-	1527	-	3320	-	2111	-	1443	-	8401
- SEPS	0	0	192	1335	303	3017	328	1783	56	1387	879	7522
(EXP)	0	0	192	1335	303	3017	328	1783	56	1387	879	7522
- UPG OUT	879	-879	687	648	384	2633	56	1727	0	1387	2006	5516
+ UPG IN	879	0	879	1527	687	3320	384	2111	56	1443	2885	8401
NET RESULT	0	0	0	1527	0	3320	0	2111	0	1443	0	8401
AUTHORIZED	0	0	0	1527	0	3320	0	2111	0	1443	0	8401

FIGURE 4 (continued)

YEAR 2: AGGREGATE RESULTS											
	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL
	CHNG	POP	CHNG	POP	CHNG	POP	CHNG	POP	CHNG	POP	
SKILL 1											
ENTERING	-	0	-	6	-	22	-	30	-	12	70
- SEPS	0	0	1	5	3	19	1	29	0	12	65
(EXP)	0	0	1	5	3	19	1	29	0	12	65
- UPG OUT	4	-4	5	0	2	17	1	28	0	12	53
+ UPG IN	4	0	4	4	5	22	2	30	1	13	69
NET RESULT	0	0	-2	4	0	22	0	30	1	13	69
AUTHORIZED	0	0	6	6	22	22	31	31	12	12	71
SKILL 2											
ENTERING	-	0	-	11	-	21	-	48	-	12	92
- SEPS	0	0	1	10	3	18	2	46	0	12	86
(EXP)	0	0	1	10	3	18	2	46	0	12	86
- UPG OUT	8	-8	10	0	2	16	1	45	0	12	65
+ UPG IN	8	0	8	8	10	26	2	47	1	13	94
NET RESULT	0	0	-3	8	5	26	-1	47	1	13	94
AUTHORIZED	0	0	12	12	21	21	49	49	12	12	94
SKILL 3											
ENTERING	-	0	-	14	-	59	-	156	-	28	257
- SEPS	0	0	2	12	11	48	9	147	4	24	231
(EXP)	0	0	2	12	11	48	9	147	4	24	231
- UPG OUT	10	-10	12	0	4	44	3	144	0	24	202
+ UPG IN	10	0	10	10	12	56	4	148	3	27	241
NET RESULT	0	0	-4	10	-3	56	-8	148	-1	27	241
AUTHORIZED	0	0	14	14	67	67	165	165	28	28	274

FIGURE 4 (continued)

[illegible]

SKILL 5	ENTERING	SEPS	(EXP)	UPG OUT	UPG IN	XT OUT	NET RESULT	AUTHORIZED
-	0	0	0	0	0	0	0	0
-	19	17	17	0	13	13	13	19
-	28	23	23	21	38	28	28	28
-	2	2	2	1	2	0	-1	44
-	44	42	42	41	43	43	43	44
-	0	0	0	0	1	1	0	2
-	2	2	2	2	3	2	2	2
-	93	84	84	51	97	86	86	93
-	2	9	9	33	46	11	-7	2
-	93	84	84	51	97	86	86	93

SKILL 6													
ENTERING	-	0	-	151	-	455	-	558	-	85	-	1249	
- SEPS	0	0	19	132	84	371	35	523	14	71	152	1097	
(EXP)	0	0	19	132	84	371	35	523	14	71	152	1097	
- UPG OUT	105	-105	132	0	32	339	10	513	0	71	279	818	
+ UPG IN	105	0	105	105	132	471	32	545	10	81	384	1202	
NET RESULT	0	0	-46	105	16	471	-13	545	-4	81	-47	1202	
AUTHORIZED	0	0	151	483				573		90		1297	

[illegible]

FIGURE 4 (continued)

SKILL 8												
ENTERING	-	0	-	63	-	152	-	197	-	31	-	443
- SEPS	0	0	0	55	28	124	11	186	4	27	51	392
(EXP)	0	0	0	55	28	124	11	186	4	27	51	392
- UPG OUT	44	-44	55	0	11	113	3	183	0	27	113	279
+ UPG IN	44	0	44	44	55	168	11	194	3	30	157	436
NET RESULT	0	0	-19	44	16	168	-3	194	-1	30	-7	436
AUTHORIZED	0	0	64	64	151	151		202	31			448
SKILL 9												
ENTERING	-	0	-	32	-	136	-	149	-	22	-	339
- SEPS	0	0	4	28	25	111	9	140	2	20	40	299
(EXP)	0	0	4	28	25	111	9	140	2	20	40	299
- UPG OUT	22	-22	28	0	10	101	3	137	0	20	63	236
+ UPG IN	22	0	22	22	28	129	10	147	3	23	85	321
NET RESULT	0	0	-10	22	-7	129	-2	147	1	23	-18	321
AUTHORIZED	0	0	31	31	155	155		151	20			357
SKILL 10												
ENTERING	-	0	-	67	-	525	-	548	-	45	-	1185
- SEPS	0	0	9	58	97	428	35	513	7	38	148	1037
(EXP)	0	0	9	58	97	428	35	513	7	38	148	1037
- UPG OUT	47	-47	58	0	37	391	9	504	0	38	151	886
+ UPG IN	47	0	47	47	58	449	37	541	9	47	198	1084
+ TT IN	0	0	0	47	3	452	0	541	0	47	3	1087
NET RESULT	0	0	-20	47	-73	452	-7	541	2	47	-98	1087
AUTHORIZED	0	0	67	67	638	638		553	41			1299
SKILL 11												
ENTERING	-	0	-	0	-	12	-	30	-	1	-	43
- SEPS	0	0	0	0	1	11	1	29	0	1	2	41
(EXP)	0	0	0	0	1	11	1	29	0	1	2	41
- UPG OUT	0	0	0	0	1	10	0	29	0	1	1	40
+ UPG IN	0	0	0	0	0	10	1	30	0	1	1	41
NET RESULT	0	0	0	0	-2	10	0	30	0	1	-2	41
AUTHORIZED	0	0	0	0	16	16		31	0			47

FIGURE 4 (continued)

SKILL 12											
ENTERING	-	0	-	31	-	179	-	210	-	18	438
- SEPS	0	0	4	27	32	147	12	198	1	17	389
(EXP)	0	0	4	27	32	147	12	198	1	17	389
- UPG OUT	21	-21	27	0	13	134	4	194	0	17	324
+ UPG IN	21	0	21	21	27	161	13	207	4	21	410
NET RESULT	0	0	-10	21	-18	161	-3	207	3	21	410
AUTHORIZED	0	0	30	30	212	212		212	15		469
SKILL 13											
ENTERING	-	0	-	76	-	379	-	390	-	56	901
- SEPS	0	0	10	66	70	309	24	366	8	48	789
(EXP)	0	0	10	66	70	309	24	366	8	48	789
- UPG OUT	53	-53	66	0	27	282	7	359	0	48	636
+ UPG IN	53	0	53	53	66	348	27	386	7	55	842
+ TT IN	0	0	0	53	1	349	0	386	0	55	843
NET RESULT	0	0	-23	53	-30	349	-4	386	-1	55	843
AUTHORIZED	0	0	76	76	439	439		394	60		969
SKILL 14											
ENTERING	-	0	-	16	-	54	-	51	-	1	122
- SEPS	0	0	2	14	10	44	2	49	0	1	108
(EXP)	0	0	2	14	10	44	2	49	0	1	108
- UPG OUT	11	-11	14	0	4	40	1	48	0	1	78
+ UPG IN	11	0	11	11	14	54	4	52	1	2	119
NET RESULT	0	0	-5	11	0	54	1	52	1	2	119
AUTHORIZED	0	0	16	16	59	59		49	0		124
SKILL 15											
ENTERING	-	0	-	9	-	118	-	163	-	23	313
- SEPS	0	0	1	8	21	97	9	154	2	21	280
(EXP)	0	0	1	8	21	97	9	154	2	21	280
- UPG OUT	6	-6	8	0	8	89	3	151	0	21	255
+ UPG IN	6	0	6	6	8	97	8	159	3	24	286
NET RESULT	0	0	-3	6	-21	97	-4	159	1	24	286
AUTHORIZED	0	0	8	8	148	148		167	21		344

FIGURE 4 (continued)

SKILL 16											
ENTERING	-	0	-	37	-	187	-	199	-	23	446
- SEPS	0	0	5	32	37	150	11	188	2	21	391
(EXP)	0	0	5	32	37	150	11	188	2	21	391
- UPG OUT	26	-26	32	0	13	137	3	185	0	21	317
+ UPG IN	26	0	26	26	32	169	13	198	3	24	417
NET RESULT	0	0	-11	26	-18	169	-1	198	1	24	417
AUTHORIZED	0	0	38	38	217	217		200	21		476
SKILL 17											
ENTERING	-	0	-	6	-	24	-	16	-	0	46
- SEPS	0	0	1	5	3	21	0	16	0	0	42
(EXP)	0	0	1	5	3	21	0	16	0	0	42
- UPG OUT	4	-4	5	0	2	19	0	16	0	0	31
+ UPG IN	4	0	4	4	5	24	2	18	0	0	46
NET RESULT	0	0	-2	4	0	24	2	18	0	0	46
AUTHORIZED	0	0	6	6	25	25		16	0	0	47
SKILL 18											
ENTERING	-	0	-	9	-	62	-	55	-	1	127
- SEPS	0	0	1	8	12	50	3	52	0	1	111
(EXP)	0	0	1	8	12	50	3	52	0	1	111
- UPG OUT	6	-6	8	0	4	46	1	51	0	1	92
+ UPG IN	6	0	6	6	8	54	4	55	1	2	117
NET RESULT	0	0	-3	6	-8	54	0	55	1	2	117
AUTHORIZED	0	0	9	9	73	73		55	0	0	137
SKILL 19											
ENTERING	-	0	-	9	-	36	-	28	-	8	81
- SEPS	0	0	1	8	6	30	1	27	0	8	73
(EXP)	0	0	1	8	6	30	1	27	0	8	73
- UPG OUT	6	-6	8	0	3	27	0	27	0	8	56
+ UPG IN	6	0	6	6	8	35	3	30	0	8	79
NET RESULT	0	0	-3	6	-1	35	2	30	0	8	79
AUTHORIZED	0	0	9	9	40	40		27	0	8	84

FIGURE 4 (continued)

SKILL 20											
ENTERING	-	0	0	7	-	106	-	88	-	5	206
- SEPS	0	0	1	6	19	87	4	84	0	5	182
(EXP)	0	0	1	6	19	87	4	84	0	5	182
- UPG OUT	5	-5	6	0	7	80	2	82	0	5	162
+ UPG IN	5	0	5	5	6	86	7	89	2	7	187
NET RESULT	0	0	-2	5	-20	86	1	89	2	7	187
AUTHORIZED	0	0	7	7		132		85		4	228

SKILL 21											
ENTERING	-	0	0	75	-	300	-	188	-	28	591
- SEPS	0	0	10	65	54	246	10	178	4	24	513
(EXP)	0	0	10	65	54	246	10	178	4	24	513
- UPG OUT	52	-52	65	0	21	225	3	175	0	24	372
+ UPG IN	52	0	52	52	65	290	21	196	3	27	565
NET RESULT	0	0	-23	52	-10	290	8	196	-1	27	565
AUTHORIZED	0	0	75	75		338		181		28	622

SKILL 22											
ENTERING	-	0	0	90	-	590	-	625	-	58	1363
- SEPS	0	0	12	78	110	480	40	585	9	49	1192
(EXP)	0	0	12	78	110	480	40	585	9	49	1192
- UPG OUT	63	-63	78	0	41	439	11	574	0	49	999
+ UPG IN	63	0	63	63	78	517	41	615	11	60	1255
+ TT IN	0	0	0	63	1	518	0	615	0	60	1256
NET RESULT	0	0	-27	63	-72	518	-10	615	2	60	1256
AUTHORIZED	0	0	90	90		708		633		58	1489

SKILL 23											
ENTERING	-	0	0	1	-	7	-	9	-	0	17
- SEPS	0	0	0	1	1	6	0	9	0	0	16
(EXP)	0	0	0	1	1	6	0	9	0	0	16
- UPG OUT	1	-1	1	0	1	5	0	9	0	0	13
+ UPG IN	1	0	1	1	1	6	1	10	0	0	17
- XT OUT	0	0	0	1	0	6	1	9	0	0	16
NET RESULT	0	0	0	1	-1	6	0	9	0	0	16
AUTHORIZED	0	0	1	1		7		9		0	17

FIGURE 4 (continued)

SKILL 24														
ENTERING	-	0	-	0	1	-	7	-	11	-	0	0	-	19
- SEPS	0	0	0	0	1	1	6	0	11	0	0	0	0	18
(EXPI)	0	0	0	0	1	1	6	0	11	0	0	0	0	18
- UPG OUT	1	-1	1	0	0	0	6	0	11	0	0	0	2	16
+ UPG IN	1	0	1	1	1	1	7	0	11	0	0	0	3	19
NET RESULT	0	0	0	0	1	0	7	0	11	0	0	0	0	19
AUTHORIZED	0	0	0	0	1	1	8	0	11	0	0	0	0	20
SKILL 25														
ENTERING	-	0	-	0	2	-	5	-	12	-	0	0	-	19
- UPG OUT	1	-1	2	0	0	0	5	0	12	0	0	0	3	16
+ UPG IN	1	0	1	1	2	2	7	0	12	0	0	0	4	20
- XT OUT	0	0	0	1	2	2	5	0	12	0	0	0	2	18
NET RESULT	0	0	-1	1	0	0	5	0	12	0	0	0	-1	18
AUTHORIZED	0	0	0	2	2	0	5	0	12	0	0	0	0	19
SKILL 26														
ENTERING	-	0	-	0	77	-	357	-	293	-	27	-	-	754
- SEPS	0	0	10	67	68	68	289	17	276	4	23	99	99	655
(EXPI)	0	0	10	67	68	68	289	17	276	4	23	99	99	655
- UPG OUT	53	-53	67	0	25	264	5	5	271	0	23	150	505	505
+ UPG IN	53	0	53	53	67	331	25	25	296	5	28	203	708	708
NET RESULT	0	0	-24	53	-26	331	3	3	296	1	28	-46	-46	708
AUTHORIZED	0	0	0	77	77	411	411	0	290	0	25	0	0	803
SKILL 27														
ENTERING	-	0	-	0	289	-	1488	-	1104	-	98	-	-	2979
- SEPS	0	0	37	252	275	1213	75	75	1029	15	83	402	402	2577
(EXPI)	0	0	37	252	275	1213	75	75	1029	15	83	402	402	2577
- UPG OUT	201	-201	252	0	104	1109	19	19	1010	0	83	576	576	2001
+ UPG IN	201	0	201	201	252	1361	104	104	1114	19	102	777	777	2778
+ TT IN	0	0	0	201	6	1367	1	1	1115	1	103	8	8	2786
NET RESULT	0	0	-88	201	-121	1367	11	11	1115	5	103	-193	-193	2786
AUTHORIZED	0	0	0	290	290	1730	1730	0	1087	0	94	0	0	3201

FIGURE 4 (continued)

SKILL 28													
ENTERING	-	0	-	137	-	124	-	23	-	309			
- SEPS	0	0	3	25	25	112	8	116	3	20	39	270	
(EXP)	0	0	3	22	25	112	8	116	3	20	39	270	
- UPG OUT	17	-17	22	0	10	102	2	114	0	20	51	219	
+ UPG IN	17	0	17	17	22	124	10	124	2	22	68	287	
NET RESULT	0	0	-8	17	-13	124	0	124	-1	22	-22	287	
AUTHORIZED		0		24		162		122		23		331	
SKILL 29													
ENTERING	-	0	-	1005	-	896	-	160	-	2232			
- SEPS	0	0	22	149	187	818	60	836	24	136	293	1939	
(EXP)	0	0	22	149	187	818	60	836	24	136	293	1939	
- UPG OUT	119	-119	149	0	70	748	15	821	0	136	353	1586	
+ UPG IN	119	0	119	119	149	897	70	891	15	151	472	2058	
+ TT IN	0	0	0	119	1	898	0	891	0	151	1	2059	
NET RESULT	0	0	-52	119	-107	898	-5	891	-9	151	-173	2059	
AUTHORIZED		0		171		1192		899		167		2429	
SKILL 30													
ENTERING	-	0	-	296	-	250	-	4	-	607			
- SEPS	0	0	7	50	54	242	14	236	0	4	75	532	
(EXP)	0	0	7	50	54	242	14	236	0	4	75	532	
- UPG OUT	40	-40	50	0	21	221	4	232	0	4	115	417	
+ UPG IN	40	0	40	40	50	271	21	253	4	8	155	572	
NET RESULT	0	0	-17	40	-25	271	3	253	4	8	-35	572	
AUTHORIZED		0		58		344		246		0		648	
SKILL 31													
ENTERING	-	0	-	19	-	25	-	36	-	83			
- SEPS	0	0	0	3	3	16	1	24	4	32	8	75	
(EXP)	0	0	0	3	3	16	1	24	4	32	8	75	
- UPG OUT	2	-2	3	0	1	15	0	24	0	32	6	69	
+ UPG IN	2	0	2	2	3	18	1	25	0	32	8	77	
NET RESULT	0	0	-1	2	-1	18	0	25	-4	32	-6	77	
AUTHORIZED		0		3		21		25		40		89	

FIGURE 4 (continued)

SKILL 32												
ENTERING	-	0	-	120	-	404	-	243	-	34	-	821
- SEPS	0	0	15	105	76	328	14	249	5	29	110	711
(EXP)	0	0	15	105	76	328	14	249	5	29	110	711
- UPG OUT	83	-83	105	0	28	300	5	244	0	29	221	490
UPG IN	83	0	83	83	105	405	28	272	5	34	304	794
NET RESULT	0	0	-37	83	1	405	9	272	0	34	-27	794
AUTHORIZED	0	0		119		441		254		33		847
SKILL 33												
ENTERING	-	0	-	194	-	987	-	538	-	92	-	1811
- SEPS	0	0	25	169	185	802	33	505	14	78	257	1554
(EXP)	0	0	25	169	185	802	33	505	14	78	257	1554
- UPG OUT	135	-135	169	0	69	733	9	496	0	78	382	1172
UPG IN	135	0	135	135	169	902	69	565	9	87	517	1689
NET RESULT	0	0	-59	135	-85	902	27	565	-5	87	-122	1689
AUTHORIZED	0	0		195		1151		508		98		1952
SKILL 34												
ENTERING	-	0	-	65	-	217	-	226	-	25	-	533
- SEPS	0	0	8	57	41	176	14	212	3	22	66	467
(EXP)	0	0	8	57	41	176	14	212	3	22	66	467
- UPG OUT	45	-45	57	0	15	161	4	208	0	22	121	346
UPG IN	45	0	45	45	57	218	15	223	4	26	166	512
NET RESULT	0	0	-20	45	1	218	-3	223	1	26	-21	512
AUTHORIZED	0	0		65		237		227		24		553
SKILL 35												
ENTERING	-	0	-	51	-	164	-	319	-	51	-	585
- SEPS	0	0	7	44	31	133	18	301	8	43	64	521
(EXP)	0	0	7	44	31	133	18	301	8	43	64	521
- UPG OUT	35	-35	44	0	11	122	5	296	0	43	95	426
UPG IN	35	0	35	35	44	166	11	307	5	48	130	556
NET RESULT	0	0	-16	35	2	166	-12	307	-3	48	-29	556
AUTHORIZED	0	0		51		175		332		55		613

FIGURE 4 (continued)

SKILL 36												
ENTERING	-	0	-	77	-	322	-	247	-	23	-	669
- SEPS	0	0	10	67	59	263	14	233	2	21	85	584
(EXP)	0	0	10	67	59	263	14	233	2	21	85	584
- UPG OUT	53	-53	67	0	23	240	4	229	0	21	147	437
+ UPG IN	53	0	53	53	67	307	23	252	4	25	200	637
NET RESULT	0	0	-24	53	-15	307	5	252	2	25	-32	637
AUTHORIZED	0	0	-	77	-	366	-	241	-	19	-	703
SKILL 37												
ENTERING	-	0	-	159	-	547	-	430	-	39	-	1175
- SEPS	0	0	21	138	100	447	26	404	5	34	152	1023
(EXP)	0	0	21	138	100	447	26	404	5	34	152	1023
- UPG OUT	110	-110	138	0	38	409	7	397	0	34	293	730
+ UPG IN	110	0	110	110	138	547	38	435	7	41	403	1133
NET RESULT	0	0	-49	110	0	547	5	435	2	41	-42	1133
AUTHORIZED	0	0	-	159	-	600	-	425	-	36	-	1220
SKILL 38												
ENTERING	-	0	-	184	-	486	-	467	-	58	-	1195
- SEPS	0	0	24	160	91	395	28	439	9	49	152	1043
(EXP)	0	0	24	160	91	395	28	439	9	49	152	1043
- UPG OUT	128	-128	160	0	34	361	8	431	0	49	330	713
+ UPG IN	128	0	128	128	160	521	34	465	8	57	458	1171
NET RESULT	0	0	-56	128	35	521	-2	465	-1	57	-24	1171
AUTHORIZED	0	0	-	184	-	501	-	474	-	61	-	1220
SKILL 39												
ENTERING	-	0	-	92	-	312	-	178	-	15	-	597
- SEPS	0	0	12	80	58	254	9	169	0	15	79	518
(EXP)	0	0	12	80	58	254	9	169	0	15	79	518
- UPG OUT	64	-64	80	0	22	232	3	166	0	15	169	349
+ UPG IN	64	0	64	64	80	312	22	188	3	18	233	502
NET RESULT	0	0	-28	64	0	312	10	188	3	18	-15	582
AUTHORIZED	0	0	-	92	-	340	-	171	-	12	-	615

FIGURE 4 (continued)

SKILL 40												
ENTERING	-	0	-	214	-	853	-	560	-	37	-	1664
- SEPS	0	0	28	186	161	692	35	525	6	31	230	1434
(EXP)	0	0	28	186	161	692	35	525	6	31	230	1434
- UPG OUT	149	-149	186	0	59	633	10	515	0	31	404	1030
+ UPG IN	149	0	149	149	186	819	59	574	10	41	553	1583
NET RESULT	0	0	-65	149	-34	819	14	574	4	41	-81	1583
AUTHORIZED	0	0		214		966		544		32		1756
SKILL 41												
ENTERING	-	0	-	55	-	278	-	230	-	14	-	577
- SEPS	0	0	7	48	51	227	14	216	0	14	72	505
(EXP)	0	0	7	48	51	227	14	216	0	14	72	505
- UPG OUT	38	-38	48	0	19	208	4	212	0	14	109	396
+ UPG IN	38	0	38	38	48	256	19	231	4	18	147	543
NET RESULT	0	0	-17	38	-22	256	1	231	4	18	-34	543
AUTHORIZED	0	0		54		322		226		11		613
SKILL 42												
ENTERING	-	0	-	66	-	357	-	246	-	27	-	696
- SEPS	0	0	9	57	67	290	14	232	4	23	94	602
(EXP)	0	0	9	57	67	290	14	232	4	23	94	602
- UPG OUT	46	-46	57	0	25	265	4	228	0	23	132	470
+ UPG IN	46	0	46	46	57	322	25	253	4	27	178	648
NET RESULT	0	0	-20	46	-35	322	7	253	0	27	-48	648
AUTHORIZED	0	0		66		417		237		25		745
SKILL 43												
ENTERING	-	0	-	346	-	1230	-	1294	-	130	-	3000
- SEPS	0	0	45	301	230	1000	88	1206	20	110	383	2617
(EXP)	0	0	45	301	230	1000	88	1206	20	110	383	2617
- UPG OUT	240	-240	301	0	86	914	22	1184	0	110	649	1968
+ UPG IN	240	0	240	240	301	1215	86	1270	22	132	-889	2857
NET RESULT	0	0	-106	240	-15	1215	-24	1270	2	132	-143	2857
AUTHORIZED	0	0		345		1361		1320		128		3154

FIGURE 4 (continued)

SKILL 44													
ENTERING	-	0	-	2	-	34	-	89	-	6	-	131	
- SEPS	0	0	0	2	6	28	5	84	0	6	11	120	
(EXP)	0	0	0	2	6	28	5	84	0	6	11	120	
- UPG OUT	1	-1	2	0	2	26	2	82	0	6	7	113	
UPG IN	1	0	1	1	2	28	2	84	2	8	8	121	
NET RESULT	0	0	-1	1	-6	28	-5	84	2	8	-10	121	
AUTHORIZED	0	0	2	2	44			93		5		144	
SKILL 45													
ENTERING	-	0	-	74	-	209	-	218	-	31	-	532	
- SEPS	0	0	10	64	42	167	12	206	4	27	68	464	
(EXP)	0	0	10	64	42	167	12	206	4	27	68	464	
- UPG OUT	51	-51	64	0	14	153	4	202	0	27	133	331	
UPG IN	51	0	51	51	64	217	14	216	4	31	184	515	
NET RESULT	0	0	-23	51	8	217	-2	216	0	31	-17	515	
AUTHORIZED	0	0	73	73	223			219		31		546	
SKILL 46													
ENTERING	-	0	-	430	-	1436	-	1405	-	143	-	3414	
- SEPS	0	0	55	375	269	1167	97	1308	21	122	442	2972	
(EXP)	0	0	55	375	269	1167	97	1308	21	122	442	2972	
- UPG OUT	298	-298	375	0	100	1067	24	1284	0	122	797	2175	
UPG IN	298	0	298	298	375	1442	100	1384	24	146	1095	3270	
NET RESULT	0	0	-132	298	6	1442	-21	1384	3	146	-144	3270	
AUTHORIZED	0	0	430	430	1568			1426		142		3566	
SKILL 47													
ENTERING	-	0	-	130	-	453	-	742	-	193	-	1518	
- SEPS	0	0	17	113	85	368	52	690	29	164	183	1335	
(EXP)	0	0	17	113	85	368	52	690	29	164	183	1335	
- UPG OUT	90	-90	113	0	32	336	13	677	0	164	248	1087	
UPG IN	90	0	90	90	113	449	32	709	13	177	338	1425	
NET RESULT	0	0	-40	90	4	449	-33	709	-16	177	-93	1425	
AUTHORIZED	0	0	130	130	499			777		210		1616	

FIGURE 4 (continued)

SKILL 48												
ENTERING	-	0	-	55	-	62	-	269	-	34	-	420
- SEPS	0	0	7	48	13	49	17	252	5	29	42	378
(EXP)	0	0	7	48	13	49	17	252	5	29	42	378
- UPG OUT	38	-38	48	0	4	45	5	247	0	29	95	283
+ UPG IN	38	0	38	38	48	93	4	251	5	34	133	416
NET RESULT	0	0	-17	38	31	93	-18	251	0	34	-4	416
AUTHORIZED	0	0	-	54	-	43	-	287	-	33	-	417
SKILL 49												
ENTERING	-	0	-	465	-	1816	-	787	-	66	-	3134
- SEPS	0	0	60	405	339	1477	53	734	10	56	462	2672
(EXP)	0	0	60	405	339	1477	53	734	10	56	462	2672
- UPG OUT	323	-323	405	0	127	1350	13	721	0	56	868	1804
+ UPG IN	323	0	323	323	405	1755	127	848	13	69	1191	2995
NET RESULT	0	0	-142	323	-61	1755	61	848	3	69	-139	2995
AUTHORIZED	0	0	-	466	-	2042	-	726	-	65	-	3299
SKILL 50												
ENTERING	-	0	-	347	-	1259	-	847	-	105	-	2558
- SEPS	0	0	45	302	234	1025	58	789	17	88	354	2204
(EXP)	0	0	45	302	234	1025	58	789	17	88	354	2204
- UPG OUT	241	-241	302	0	88	937	14	775	0	88	645	1559
+ UPG IN	241	0	241	241	302	1239	88	863	14	102	886	2445
NET RESULT	0	0	-106	241	-20	1239	16	863	-3	102	-113	2445
AUTHORIZED	0	0	-	347	-	1396	-	834	-	106	-	2683
SKILL 51												
ENTERING	-	0	-	14	-	53	-	45	-	6	-	118
- SEPS	0	0	2	12	10	43	2	43	0	6	14	104
(EXP)	0	0	2	12	10	43	2	43	0	6	14	104
- UPG OUT	10	-10	12	0	4	39	1	42	0	6	27	77
+ UPG IN	10	0	10	10	12	51	4	46	1	7	37	114
NET RESULT	0	0	-4	10	-2	51	1	46	1	7	-4	114
AUTHORIZED	0	0	-	15	-	56	-	44	-	5	-	120

FIGURE 4 (continued)

GRAND TOTAL	-	0	-	4071	-	18919	-	16538	-	2043	-	42371
ENTERING	0	0	629	4242	3520	15399	1039	15499	283	1760	5471	36900
- SEPS	0	0	629	4242	3520	15399	1039	15499	283	1760	5471	36900
(EXPI	0	0	629	4242	3520	15399	1039	15499	283	1760	5471	36900
- UPG OUT	3381	-3381	4242	0	1322	14077	283	15216	0	1760	9228	27672
UPG IN	3381	0	3381	3381	4242	18319	1322	16538	283	2043	12609	40281
- XT OUT	0	0	0	3381	12	18307	1	16537	1	2042	14	40267
XT IN	0	0	0	3381	12	18319	1	16538	1	2043	14	40281
NET RESULT	0	0	-1490	3381	-600	18319	0	16538	0	2043	-2090	40281
AUTHORIZED	0	0		4871	21208			16538		2043		44660

SKILL 52	-	0	-	127	-	156	-	48	-	25	-	356
ENTERING	0	0	13	114	5	151	6	42	0	25	24	332
- SEPS	0	0	13	114	5	151	6	42	0	25	24	332
(EXPI	0	0	13	114	5	151	6	42	0	25	24	332
- UPG OUT	52	-52	39	75	14	137	1	41	0	25	106	226
UPG IN	52	0	52	127	39	176	14	55	1	26	158	384
NET RESULT	0	0	0	127	20	176	7	55	1	26	28	384
AUTHORIZED	0	0		126		126		38		24		314

SKILL 53	-	0	-	66	-	80	-	23	-	17	-	186
ENTERING	0	0	7	59	3	77	2	21	0	17	12	174
- SEPS	0	0	7	59	3	77	2	21	0	17	12	174
(EXPI	0	0	7	59	3	77	2	21	0	17	12	174
- UPG OUT	27	-27	20	39	7	70	1	20	0	17	55	119
UPG IN	27	0	27	66	20	90	7	27	1	18	82	201
NET RESULT	0	0	0	66	10	90	4	27	1	18	15	201
AUTHORIZED	0	0		66		64		18		16		164

FIGURE 1 (continued)

SKILL 54											
ENTERING	-	0	-	52	-	66	-	66	-	33	-
- SEPS	0	0	6	46	2	64	9	57	1	32	18
(EXP)	0	0	6	46	2	64	9	57	1	32	18
- UPG OUT	22	-22	16	30	6	58	3	54	0	32	47
UPG IN	22	0	22	52	16	74	6	60	3	35	69
NET RESULT	0	0	0	52	8	74	-6	60	2	35	4
AUTHORIZED	0	0	0	53	-	53	-	74	-	31	-

SKILL 55											
ENTERING	-	0	-	124	-	153	-	35	-	14	-
- SEPS	0	0	13	111	6	147	3	32	0	14	22
(EXP)	0	0	13	111	6	147	3	32	0	14	22
- UPG OUT	51	-51	38	73	13	134	1	31	0	14	103
UPG IN	51	0	51	124	38	172	13	44	1	15	154
NET RESULT	0	0	0	124	19	172	9	44	1	15	29
AUTHORIZED	0	0	0	124	-	123	-	26	-	13	-

SKILL 56											
ENTERING	-	0	-	24	-	30	-	7	-	3	-
- SEPS	0	0	2	22	0	30	0	7	0	3	2
(EXP)	0	0	2	22	0	30	0	7	0	3	2
- UPG OUT	10	-10	8	14	3	27	0	7	0	3	21
UPG IN	10	0	10	24	8	35	3	10	0	3	31
NET RESULT	0	0	0	24	5	35	3	10	0	3	8
AUTHORIZED	0	0	0	24	-	23	-	5	-	3	-

SKILL 57											
ENTERING	-	0	-	40	-	50	-	50	-	24	-
- SEPS	0	0	4	36	0	50	7	43	0	24	11
(EXP)	0	0	4	36	0	50	7	43	0	24	11
- UPG OUT	16	-16	12	24	4	46	2	41	0	24	34
UPG IN	16	0	16	40	12	58	4	45	2	26	50
NET RESULT	0	0	0	40	8	58	-5	45	2	26	5
AUTHORIZED	0	0	0	40	-	40	-	56	-	23	-

FIGURE 4 (continued)

SKILL 58													
ENTERING	-	0	-	43	-	53	-	18	-	7	-	121	
- SEPS	0	0	4	39	0	53	2	16	0	7	6	115	
(EXP)	0	0	4	39	0	53	2	16	0	7	6	115	
- UPG OUT	18	-18	13	26	4	49	1	15	0	7	36	79	
+ UPG IN	18	0	18	44	13	62	4	19	1	8	54	133	
NET RESULT	0	0	1	44	9	62	1	19	1	0	12	133	
AUTHORIZED	0	0		44		41		15		7		107	
SKILL 59													
ENTERING	-	0	-	45	-	55	-	41	-	7	-	148	
- SEPS	0	0	5	40	1	54	6	35	0	7	12	136	
(EXP)	0	0	5	40	1	54	6	35	0	7	12	136	
- UPG OUT	18	-18	14	26	5	49	1	34	0	7	38	98	
+ UPG IN	18	0	18	44	14	63	5	39	1	8	56	154	
NET RESULT	0	0	-1	44	8	63	-2	39	1	0	6	154	
AUTHORIZED	0	0		45		45		42		6		138	
SKILL 60													
ENTERING	-	0	-	32	-	37	-	26	-	5	-	100	
- SEPS	0	0	3	29	0	37	3	23	0	5	6	94	
(EXP)	0	0	3	29	0	37	3	23	0	5	6	94	
- UPG OUT	13	-13	10	19	3	34	1	22	0	5	27	67	
+ UPG IN	13	0	13	32	10	44	3	25	1	6	40	107	
NET RESULT	0	0	0	32	7	44	-1	25	1	6	7	107	
AUTHORIZED	0	0		32		28		28		4		92	
SKILL 61													
ENTERING	-	0	-	34	-	43	-	12	-	4	-	93	
- SEPS	0	0	3	31	0	43	0	12	0	4	3	90	
(EXP)	0	0	3	31	0	43	0	12	0	4	3	90	
- UPG OUT	14	-14	11	20	4	39	0	12	0	4	29	61	
+ UPG IN	14	0	14	34	11	50	4	16	0	4	43	104	
NET RESULT	0	0	0	34	7	50	4	16	0	4	11	104	
AUTHORIZED	0	0		34		34		8		4		80	

FIGURE 4 (continued)

SKILL 62												
ENTERING	-	0	-	57	-	70	-	14	-	0	0	151
- SEPS	0	0	7	50	2	68	1	15	0	0	8	10
(EXP)	0	0	7	50	2	68	1	15	0	0	8	10
- UPG OUT	23	-23	17	33	6	62	0	15	0	0	8	46
+ UPG IN	23	0	23	56	17	79	6	21	0	0	8	69
NET RESULT	0	0	-1	56	9	79	5	21	0	0	8	13
AUTHORIZED	0	0		57		54		10				129
SKILL 63												
ENTERING	-	0	-	26	-	32	-	13	-	0	0	71
- SEPS	0	0	2	24	0	32	1	12	0	0	0	3
(EXP)	0	0	2	24	0	32	1	12	0	0	0	3
- UPG OUT	11	-11	8	16	3	29	0	12	0	0	0	22
+ UPG IN	11	0	11	27	8	37	3	15	0	0	0	33
NET RESULT	0	0	1	27	5	37	2	15	0	0	0	8
AUTHORIZED	0	0		26		25		10				61
SKILL 64												
ENTERING	-	0	-	36	-	47	-	13	-	0	0	96
- SEPS	0	0	3	33	0	47	0	13	0	0	0	3
(EXP)	0	0	3	33	0	47	0	13	0	0	0	3
- UPG OUT	15	-15	11	22	4	43	1	12	0	0	0	31
+ UPG IN	15	0	15	37	11	54	4	16	1	1	1	46
NET RESULT	0	0	1	37	7	54	3	16	1	1	1	12
AUTHORIZED	0	0		37		36		9				82
SKILL 65												
ENTERING	-	0	-	9	-	12	-	3	-	0	0	24
- SEPS	0	0	1	8	0	12	0	3	0	0	0	1
(EXP)	0	0	1	8	0	12	0	3	0	0	0	1
- UPG OUT	4	-4	3	5	1	11	0	3	0	0	0	8
+ UPG IN	4	0	4	9	3	14	1	4	0	0	0	12
NET RESULT	0	0	0	9	2	14	1	4	0	0	0	3
AUTHORIZED	0	0		9		9		2				20

FIGURE 4 (continued)

SKILL 66													
ENTERING	-	0	-	30	-	36	-	12	-	3	-	81	
- SEPS	0	0	3	27	0	36	0	12	0	3	3	78	
(EXP)	0	0	3	27	0	36	0	12	0	3	3	78	
- UPG OUT	12	-12	9	18	3	33	1	11	0	3	25	53	
♦ UPG IN	12	0	12	30	9	42	3	14	1	4	37	90	
NET RESULT	0	0	0	30	6	42	2	14	1	4	9	90	
AUTHORIZED	0	0	0	30		27		9		3		69	
SKILL 67													
ENTERING	-	0	-	17	-	27	-	19	-	3	-	66	
- SEPS	0	0	2	15	0	27	2	17	0	3	4	62	
(EXP)	0	0	2	15	0	27	2	17	0	3	4	62	
- UPG OUT	7	-7	5	10	3	24	1	16	0	3	16	46	
♦ UPG IN	7	0	7	17	5	29	3	19	1	4	23	69	
NET RESULT	0	0	0	17	2	29	0	19	1	4	3	69	
AUTHORIZED	0	0	0	17		24		19		2		62	
SKILL 68													
ENTERING	-	0	-	41	-	58	-	23	-	4	-	126	
- SEPS	0	0	4	37	2	56	2	21	0	4	8	118	
(EXP)	0	0	4	37	2	56	2	21	0	4	8	118	
- UPG OUT	17	-17	13	24	5	51	1	20	0	4	36	82	
♦ UPG IN	17	0	17	41	13	64	5	25	1	5	53	135	
NET RESULT	0	0	0	41	6	64	2	25	1	5	9	135	
AUTHORIZED	0	0	0	41		50		20		3		114	
SKILL 69													
ENTERING	-	0	-	75	-	316	-	197	-	118	-	706	
- SEPS	0	0	8	67	16	300	30	167	6	112	60	646	
(EXP)	0	0	8	67	16	300	30	167	6	112	60	646	
- UPG OUT	31	-31	23	44	37	263	6	161	0	112	97	549	
♦ UPG IN	31	0	31	75	23	286	37	198	6	118	128	677	
NET RESULT	0	0	0	75	-30	286	1	198	0	118	-29	677	
AUTHORIZED	0	0	0	75		361		196		120		752	

FIGURE 4 (continued)

SKILL 70												
ENTERING	-	0	-	1	-	163	-	153	-	95	-	412
- SEPS	0	0	0	1	10	153	23	130	6	89	39	373
(EXP)	0	0	0	1	10	153	23	130	6	89	39	373
- UPG OUT	0	0	0	1	21	132	5	125	0	89	26	347
+ UPG IN	0	0	0	1	0	132	21	146	5	94	26	373
NET RESULT	0	0	0	1	-31	132	-7	146	-1	94	-39	373
AUTHORIZED	0	0	0	1	205			161		96		463
SKILL 71												
ENTERING	-	0	-	0	-	15	-	4	-	1	-	20
- UPG OUT	0	0	0	0	2	13	0	4	0	1	2	18
+ UPG IN	0	0	0	0	0	13	2	6	0	1	2	20
NET RESULT	0	0	0	0	-2	13	2	6	0	1	0	20
AUTHORIZED	0	0	0	0	18			2		1		21
SKILL 72												
ENTERING	-	0	-	177	-	382	-	259	-	195	-	1013
- SEPS	0	0	19	158	19	363	39	220	14	181	91	922
(EXP)	0	0	19	158	19	363	39	220	14	181	91	922
- UPG OUT	72	-72	54	104	39	324	9	211	0	181	174	748
+ UPG IN	72	0	72	176	54	378	39	250	9	190	246	994
NET RESULT	0	0	-1	176	-4	378	-9	250	-5	190	-19	994
AUTHORIZED	0	0	177		385			269		201		1032
SKILL 73												
ENTERING	-	0	-	57	-	116	-	77	-	46	-	296
- SEPS	0	0	7	50	4	112	11	66	3	43	25	271
(EXP)	0	0	7	50	4	112	11	66	3	43	25	271
- UPG OUT	23	-23	17	33	12	100	3	63	0	43	55	216
+ UPG IN	23	0	23	56	17	117	12	75	3	46	78	294
NET RESULT	0	0	-1	56	1	117	-2	75	0	46	-2	294
AUTHORIZED	0	0	57		113			78		44		292

FIGURE 1 (continued)

SKILL 74												
ENTERING	-	0	-	23	-	112	-	65	-	32	-	232
- SEPS	0	0	2	21	5	107	7	58	1	31	15	217
(EXPI)	0	0	2	21	5	107	7	58	1	31	15	217
- UPG OUT	9	-9	7	14	13	94	2	56	0	31	31	186
+ UPG IN	9	0	9	23	7	101	13	69	2	33	40	226
NET RESULT	0	0	0	23	-11	101	4	69	1	33	-6	226
AUTHORIZED	0	0	23	23		127		62		30		242

SKILL 75												
ENTERING	-	0	-	51	-	107	-	65	-	63	-	286
- SEPS	0	0	6	45	3	104	8	57	4	59	21	265
(EXPI)	0	0	6	45	3	104	8	57	4	59	21	265
- UPG OUT	20	-20	15	30	11	93	2	55	0	59	48	217
+ UPG IN	20	0	20	50	15	108	11	66	2	61	68	285
NET RESULT	0	0	-1	50	1	108	1	66	-2	61	-1	285
AUTHORIZED	0	0	-50	50		108		64		65		287

SKILL 76												
ENTERING	-	0	-	0	-	14	-	5	-	2	-	21
- UPG OUT	0	0	0	0	2	12	0	5	0	2	2	19
+ UPG IN	0	0	0	0	0	12	2	7	0	2	2	21
NET RESULT	0	0	0	0	-2	12	2	7	0	2	0	21
AUTHORIZED	0	0	0	0		17		3		2		22

SKILL 77												
ENTERING	-	0	-	7	-	47	-	36	-	26	-	116
- SEPS	0	0	1	6	2	45	4	32	0	26	7	109
(EXPI)	0	0	1	6	2	45	4	32	0	26	7	109
- UPG OUT	3	-3	2	4	6	39	1	31	0	26	12	97
+ UPG IN	3	0	3	7	2	41	6	37	1	27	15	112
NET RESULT	0	0	0	7	-6	41	1	37	1	27	-4	112
AUTHORIZED	0	0	0	7		57		34		25		123

FIGURE 4 (continued)

SKILL 78												
ENTERING	-	0	-	26	-	86	-	57	-	50	-	219
SEPS	0	0	2	24	3	83	7	50	3	47	15	204
(EXP)	0	0	2	24	3	83	7	50	3	47	15	204
UPG OUT	11	-11	8	16	10	73	2	48	0	47	31	173
UPG IN	11	0	11	27	8	81	10	58	2	49	42	215
NET RESULT	0	0	1	27	-5	81	1	58	-1	49	-4	218
AUTHORIZED	0	0		26		94		57		51		228
SKILL 79												
ENTERING	-	0	-	0	-	17	-	6	-	2	-	25
UPG OUT	0	0	0	0	2	15	0	6	0	2	2	23
UPG IN	0	0	0	0	0	15	2	8	0	2	2	25
NET RESULT	0	0	0	0	-2	15	2	8	0	2	0	25
AUTHORIZED	0	0		0		20		4		2		26
SKILL 80												
ENTERING	-	0	-	32	-	92	-	65	-	85	-	274
SEPS	0	0	3	29	3	89	8	57	6	79	20	254
(EXP)	0	0	3	29	3	89	8	57	6	79	20	254
UPG OUT	13	-13	10	19	11	78	2	55	0	79	36	218
UPG IN	13	0	13	32	10	88	11	66	2	81	49	267
NET RESULT	0	0	0	32	-4	88	1	66	-4	81	-7	267
AUTHORIZED	0	0		31		99		65		87		282
SKILL 81												
ENTERING	-	0	-	0	-	1	-	1	-	17	-	19
UPG OUT	0	0	0	0	0	1	0	1	0	17	0	19
UPG IN	0	0	0	0	0	1	0	1	0	17	0	19
NET RESULT	0	0	0	0	0	1	0	1	0	17	0	19
AUTHORIZED	0	0		0		1		1		17		19

FIGURE 4 (continued)

SKILL 82												
ENTERING	-	0	-	48	-	112	-	56	-	42	-	258
- SEPS	0	0	6	42	3	109	7	49	2	40	18	240
(EXP)	0	0	6	42	3	109	7	49	2	40	18	240
- UPG OUT	20	-20	14	28	12	97	2	47	0	40	48	192
+ UPG IN	20	0	20	48	14	111	12	59	2	42	68	260
NET RESULT	0	0	0	48	-1	111	3	59	0	42	2	260
AUTHORIZED	0	0	0	48	113			53		41		255
SKILL 83												
ENTERING	-	0	-	25	-	105	-	94	-	107	-	331
- SEPS	0	0	2	23	4	101	13	81	6	101	25	306
(EXP)	0	0	2	23	4	101	13	81	6	101	25	306
- UPG OUT	10	-10	8	15	12	89	3	78	0	101	33	273
+ UPG IN	10	0	10	25	8	97	12	90	3	104	43	316
NET RESULT	0	0	0	25	-8	97	-4	90	-3	104	-15	316
AUTHORIZED	0	0	0	25	119			99		110		353
SKILL 84												
ENTERING	-	0	-	0	-	15	-	24	-	31	-	70
- SEPS	0	0	0	0	0	15	3	21	1	30	4	66
(EXP)	0	0	0	0	0	15	3	21	1	30	4	66
- UPG OUT	0	0	0	0	2	13	1	20	0	30	3	63
+ UPG IN	0	0	0	0	0	13	2	22	1	31	3	66
NET RESULT	0	0	0	0	-2	13	-2	22	0	31	-4	66
AUTHORIZED	0	0	0	0	19			27		30		76
SKILL 85												
ENTERING	-	0	-	33	-	126	-	84	-	67	-	310
- SEPS	0	0	3	30	5	121	11	73	5	62	24	286
(EXP)	0	0	3	30	5	121	11	73	5	62	24	286
- UPG OUT	13	-13	10	20	15	106	3	70	0	62	41	245
+ UPG IN	13	0	13	33	10	116	15	85	3	65	54	299
NET RESULT	0	0	0	33	-10	116	1	85	-2	65	-11	299
AUTHORIZED	0	0	0	33	142			81		69		325

FIGURE 1 (continued)

SKILL 86												
ENTERING	-	0	0	20	-	38	-	25	-	57	-	140
- SEPS	0	0	2	18	0	38	3	22	4	53	9	131
(EXP)	0	0	2	18	0	38	3	22	4	53	9	131
- UPG OUT	8	-8	6	12	4	34	1	21	0	53	19	112
♦ UPG IN	8	0	8	20	6	40	4	25	1	54	27	139
NET RESULT	0	0	0	20	2	40	0	25	-3	54	-1	139
AUTHORIZED	0	0	0	20	35	35		25		58		138
SKILL 87												
ENTERING	-	0	0	24	-	48	-	56	-	32	-	160
- SEPS	0	0	2	22	1	47	7	49	1	31	11	149
(EXP)	0	0	2	22	1	47	7	49	1	31	11	149
- UPG OUT	10	-10	7	15	5	42	2	47	0	31	24	125
♦ UPG IN	10	0	10	25	7	49	5	52	2	33	34	159
NET RESULT	0	0	1	25	1	49	-4	52	1	33	-1	159
AUTHORIZED	0	0	0	24	47	47		63		30		164
SKILL 88												
ENTERING	-	0	0	0	-	96	-	179	-	118	-	393
- SEPS	0	0	0	0	5	91	31	148	6	112	42	351
(EXP)	0	0	0	0	5	91	31	148	6	112	42	351
- UPG OUT	0	0	0	0	13	78	7	141	0	112	20	331
♦ UPG IN	0	0	0	0	0	78	13	154	7	119	20	351
NET RESULT	0	0	0	0	-18	78	-25	154	1	119	-42	351
AUTHORIZED	0	0	0	0	121	121		206		120		447
SKILL 89												
ENTERING	-	0	0	125	-	207	-	107	-	54	-	493
- SEPS	0	0	13	112	8	199	14	93	3	51	38	455
(EXP)	0	0	13	112	8	199	14	93	3	51	38	455
- UPG OUT	51	-51	38	74	20	179	4	89	0	51	113	342
♦ UPG IN	51	0	51	125	38	217	20	109	4	55	164	506
NET RESULT	0	0	0	125	10	217	2	109	1	55	13	506
AUTHORIZED	0	0	0	125	192	192		104		53		474

FIGURE 4 (continued)

SKILL 90										
ENTERING	-	0	-	0	81	-	52	-	41	174
- SEPS	0	0	3	0	78	6	46	10	40	164
(EXP)	0	0	3	0	78	6	46	10	40	164
- UPG OUT	0	0	11	0	67	2	44	13	40	151
+ UPG IN	0	0	0	0	67	11	55	13	42	164
NET RESULT	0	0	-14	0	67	3	55	-10	42	164
AUTHORIZED	0	0	0	0	102		47		40	189
SKILL 91										
ENTERING	-	0	-	0	19	-	19	-	5	43
- SEPS	0	0	0	0	19	2	17	2	5	41
(EXP)	0	0	0	0	19	2	17	0	5	41
- UPG OUT	0	0	3	0	16	1	16	4	5	37
+ UPG IN	0	0	0	0	16	3	19	4	6	41
NET RESULT	0	0	-3	0	16	0	19	-2	6	41
AUTHORIZED	0	0	0	0	23		21		4	48
GRAND TOTAL										
ENTERING	-	0	-	0	3320	-	2111	-	1443	8401
- SEPS	0	0	115	0	3205	278	1833	624	1370	7777
(EXP)	0	0	115	0	3205	278	1833	624	1370	7777
- UPG OUT	624	-624	351	0	2854	73	1760	1514	1370	6263
+ UPG IN	624	0	466	0	3320	351	2111	2138	1443	8401
NET RESULT	0	0	0	0	3320	0	2111	0	1443	8401
AUTHORIZED	0	0	0	0	3320		2111		1443	8401

FIGURE 5: S1 Year 2 Inventory

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 1 TO 51 ENTERING POPULATION AND SEPARATIONS FOR YEAR 2

Y6	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	4871	100.	0	0.	0	0.	0	0.	4871	11.5
3	0	0.	0	0.	3433	18.1	0	0.	0	0.	3433	8.1
4	0	0.	0	0.	4482	23.7	0	0.	0	0.	4482	10.6
5	0	0.	0	0.	2809	14.8	0	0.	0	0.	2809	6.6
6	0	0.	0	0.	2127	11.2	14	0.0	0	0.	2141	5.1
7	0	0.	0	0.	1964	10.4	176	1.1	0	0.	2140	5.1
8	0	0.	0	0.	1446	7.6	377	2.3	0	0.	1823	4.3
9	0	0.	0	0.	1070	5.7	526	3.2	0	0.	1596	3.8
10	0	0.	0	0.	720	3.8	725	4.4	0	0.	1445	3.4
11	0	0.	0	0.	305	1.6	1274	7.7	0	0.	1579	3.7
12	0	0.	0	0.	0	0.	1565	9.5	0	0.	1565	3.7
13	0	0.	0	0.	0	0.	1354	8.2	0	0.	1354	3.2
14	0	0.	0	0.	104	0.5	1408	8.5	2	0.1	1514	3.6
15	0	0.	0	0.	71	0.4	1350	8.2	8	0.4	1429	3.4
16	0	0.	0	0.	96	0.5	1327	8.0	18	0.9	1441	3.4
17	0	0.	0	0.	71	0.4	1308	7.9	45	2.2	1424	3.4
18	0	0.	0	0.	77	0.4	1323	8.0	85	4.2	1485	3.5
19	0	0.	0	0.	75	0.4	1317	8.0	129	6.3	1521	3.6
20	0	0.	0	0.	67	0.4	1157	7.0	191	9.3	1415	3.3
21	0	0.	0	0.	2	0.0	633	3.8	244	11.9	879	2.1
22	0	0.	0	0.	0	0.	226	1.4	298	14.6	524	1.2
23	0	0.	0	0.	0	0.	174	1.1	253	12.4	427	1.0
24	0	0.	0	0.	0	0.	88	0.5	177	8.7	265	0.6
25	0	0.	0	0.	0	0.	141	0.9	162	7.9	303	0.7
26	0	0.	0	0.	0	0.	48	0.3	149	7.3	197	0.5
27	0	0.	0	0.	0	0.	27	0.2	93	4.6	120	0.3
28	0	0.	0	0.	0	0.	0	0.	88	4.3	88	0.2
29	0	0.	0	0.	0	0.	0	0.	59	2.9	59	0.1
30	0	0.	0	0.	0	0.	0	0.	42	2.1	42	0.1

TOTAL	0	0.	4871	11.5	18919	44.7	16538	39.0	2043	4.8	42371	100.

- SEPS	0	0.	629	12.9	3520	18.6	1039	6.3	283	13.9	5471	12.9

PRJCTN	0	0.	4242	87.1	15399	81.4	15499	93.7	1760	86.1	36900	87.1

FIGURE 5 (continued)

• • • SCENARIO 51 - "STEADY STATE" • • •

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 2

YG	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	888	58.2	0	0.	0	0.	0	0.	888	10.6
3	0	0.	34	2.2	0	0.	0	0.	0	0.	34	0.4
4	0	0.	605	39.6	166	5.0	0	0.	0	0.	771	9.2
5	0	0.	0	0.	687	20.7	0	0.	0	0.	687	8.2
6	0	0.	0	0.	592	17.8	0	0.	0	0.	592	7.0
7	0	0.	0	0.	503	15.2	0	0.	0	0.	503	6.0
8	0	0.	0	0.	415	12.5	0	0.	0	0.	415	4.9
9	0	0.	0	0.	462	13.9	2	0.0	0	0.	464	5.5
10	0	0.	0	0.	394	11.9	0	0.	0	0.	394	4.7
11	0	0.	0	0.	93	2.8	205	9.7	0	0.	298	3.5
12	0	0.	0	0.	0	0.	198	9.4	0	0.	198	2.4
13	0	0.	0	0.	8	0.2	316	15.0	0	0.	324	3.9
14	0	0.	0	0.	0	0.	379	18.0	0	0.	379	4.5
15	0	0.	0	0.	0	0.	337	16.0	0	0.	337	4.0
16	0	0.	0	0.	0	0.	313	14.8	14	1.0	327	3.9
17	0	0.	0	0.	0	0.	105	5.0	65	4.5	170	2.0
18	0	0.	0	0.	0	0.	90	4.3	107	7.4	197	2.3
19	0	0.	0	0.	0	0.	86	4.1	142	9.8	228	2.7
20	0	0.	0	0.	0	0.	80	3.8	176	12.2	256	3.0
21	0	0.	0	0.	0	0.	0	0.	207	14.3	207	2.5
22	0	0.	0	0.	0	0.	0	0.	191	13.2	191	2.3
23	0	0.	0	0.	0	0.	0	0.	159	11.0	159	1.9
24	0	0.	0	0.	0	0.	0	0.	109	7.6	109	1.3
25	0	0.	0	0.	0	0.	0	0.	77	5.3	77	0.9
26	0	0.	0	0.	0	0.	0	0.	60	4.2	60	0.7
27	0	0.	0	0.	0	0.	0	0.	68	4.7	68	0.8
28	0	0.	0	0.	0	0.	0	0.	30	2.1	30	0.4
29	0	0.	0	0.	0	0.	0	0.	28	1.9	28	0.3
30	0	0.	0	0.	0	0.	0	0.	10	0.7	10	0.1
TOTAL	0	0.	1527	18.2	3320	39.5	2111	25.1	1443	17.2	8401	100.
• SEPS	0	0.	158	10.3	115	3.5	278	13.2	73	5.1	624	7.4
PRJCTN	0	0.	1369	89.7	3205	96.5	1833	86.8	1370	94.9	7777	92.6

FIGURE 6: S1 Inventory for Years 3-5

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 1 TO 51 ENTERING POPULATION AND SEPARATIONS FOR YEAR 3

Y6	LEVEL 1 NO.	%	LEVEL 3 NO.	%	LEVEL 5 NO.	%	LEVEL 7 NO.	%	LEVEL 9 NO.	%	TOTAL NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	3381	100.	0	0.	0	0.	0	0.	3381	8.4
3	0	0.	0	0.	4242	23.2	0	0.	0	0.	4242	10.5
4	0	0.	0	0.	2849	15.6	0	0.	0	0.	2849	7.1
5	0	0.	0	0.	2693	14.7	0	0.	0	0.	2693	6.7
6	0	0.	0	0.	2447	13.4	18	0.1	0	0.	2465	6.1
7	0	0.	0	0.	1968	10.7	27	0.2	0	0.	1995	5.0
8	0	0.	0	0.	1670	9.1	220	1.3	0	0.	1890	4.7
9	0	0.	0	0.	1222	6.7	411	2.5	0	0.	1633	4.1
10	0	0.	0	0.	831	4.5	680	4.1	0	0.	1511	3.8
11	0	0.	0	0.	2	0.0	1395	8.4	0	0.	1397	3.5
12	0	0.	0	0.	0	0.	1559	9.4	0	0.	1559	3.9
13	0	0.	0	0.	0	0.	1450	8.8	0	0.	1450	3.6
14	0	0.	0	0.	0	0.	1341	8.1	0	0.	1341	3.3
15	0	0.	0	0.	67	0.4	1432	8.7	2	0.1	1501	3.7
16	0	0.	0	0.	61	0.3	1353	8.2	8	0.4	1422	3.5
17	0	0.	0	0.	78	0.4	1311	7.9	18	0.9	1407	3.5
18	0	0.	0	0.	63	0.3	1309	7.9	45	2.2	1417	3.5
19	0	0.	0	0.	70	0.4	1322	8.0	91	4.5	1483	3.7
20	0	0.	0	0.	56	0.3	1315	8.0	131	6.4	1502	3.7
21	0	0.	0	0.	0	0.	623	3.8	213	10.4	836	2.1
22	0	0.	0	0.	0	0.	299	1.8	345	16.9	644	1.6
23	0	0.	0	0.	0	0.	85	0.5	348	17.0	433	1.1
24	0	0.	0	0.	0	0.	100	0.6	216	10.6	316	0.8
25	0	0.	0	0.	0	0.	82	0.5	159	7.8	241	0.6
26	0	0.	0	0.	0	0.	134	0.8	150	7.3	284	0.7
27	0	0.	0	0.	0	0.	45	0.3	102	5.0	147	0.4
28	0	0.	0	0.	0	0.	27	0.2	78	3.8	105	0.3
29	0	0.	0	0.	0	0.	0	0.	78	3.8	78	0.2
30	0	0.	0	0.	0	0.	0	0.	59	2.9	59	0.1
TOTAL	0	0.	3381	8.4	18319	45.5	16538	41.1	2043	5.1	40281	100.
* SEPS	0	0.	439	13.0	3037	16.6	1096	6.6	315	15.4	4887	12.1
PRJCTN	0	0.	2942	87.0	15282	83.4	15442	93.4	1728	84.6	35394	87.9

FIGURE 6 (continued)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 3

YG	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	624	40.9	0	0.	0	0.	0	0.	624	7.4
3	0	0.	875	57.3	0	0.	0	0.	0	0.	875	10.4
4	0	0.	27	1.8	7	0.2	0	0.	0	0.	34	0.4
5	0	0.	1	0.0	625	18.8	0	0.	0	0.	626	7.5
6	0	0.	0	0.	679	20.5	0	0.	0	0.	679	8.1
7	0	0.	0	0.	554	16.7	0	0.	0	0.	554	6.6
8	0	0.	0	0.	482	14.5	0	0.	0	0.	482	5.7
9	0	0.	0	0.	410	12.3	2	0.0	0	0.	412	4.9
10	0	0.	0	0.	458	13.8	2	0.0	0	0.	460	5.5
11	0	0.	0	0.	105	3.2	287	13.6	0	0.	392	4.7
12	0	0.	0	0.	0	0.	267	12.6	0	0.	267	3.2
13	0	0.	0	0.	0	0.	198	9.4	0	0.	198	2.4
14	0	0.	0	0.	0	0.	313	14.8	0	0.	313	3.7
15	0	0.	0	0.	0	0.	375	17.8	0	0.	375	4.5
16	0	0.	0	0.	0	0.	333	15.8	1	0.0	334	4.0
17	0	0.	0	0.	0	0.	98	4.6	81	5.6	179	2.1
18	0	0.	0	0.	0	0.	60	2.8	70	4.9	130	1.5
19	0	0.	0	0.	0	0.	90	4.3	107	7.4	197	2.3
20	0	0.	0	0.	0	0.	86	4.1	142	9.8	228	2.7
21	0	0.	0	0.	0	0.	0	0.	176	12.2	176	2.1
22	0	0.	0	0.	0	0.	0	0.	206	14.3	206	2.5
23	0	0.	0	0.	0	0.	0	0.	191	13.2	191	2.3
24	0	0.	0	0.	0	0.	0	0.	151	10.5	151	1.8
25	0	0.	0	0.	0	0.	0	0.	96	6.7	96	1.1
26	0	0.	0	0.	0	0.	0	0.	63	4.4	63	0.7
27	0	0.	0	0.	0	0.	0	0.	59	4.1	59	0.7
28	0	0.	0	0.	0	0.	0	0.	42	2.9	42	0.5
29	0	0.	0	0.	0	0.	0	0.	30	2.1	30	0.4
30	0	0.	0	0.	0	0.	0	0.	28	1.9	28	0.3
TOTAL	0	0.	1527	18.2	3320	39.5	2111	25.1	1443	17.2	8401	100.
• SEPS	0	0.	33	2.2	121	3.6	290	13.7	98	6.8	542	6.5
PRJCTN	0	0.	1494	97.8	3199	96.4	1821	86.3	1345	93.2	7859	93.5

FIGURE 6 (continued)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 1 TO S1 ENTERING POPULATION AND SEPARATIONS FOR YEAR 4

YG	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	3381	100.	0	0.	0	0.	0	0.	3381	8.7
3	0	0.	0	0.	2942	17.5	0	0.	0	0.	2942	7.6
4	0	0.	0	0.	3526	21.0	0	0.	0	0.	3526	9.1
5	0	0.	0	0.	1712	10.2	0	0.	0	0.	1712	4.4
6	0	0.	0	0.	2347	14.0	18	0.1	0	0.	2365	6.1
7	0	0.	0	0.	2258	13.4	35	0.2	0	0.	2293	5.9
8	0	0.	0	0.	1671	9.9	73	0.4	0	0.	1744	4.5
9	0	0.	0	0.	1404	8.4	271	1.6	0	0.	1675	4.3
10	0	0.	0	0.	681	4.1	860	5.2	0	0.	1541	4.0
11	0	0.	0	0.	2	0.0	1452	8.8	0	0.	1454	3.7
12	0	0.	0	0.	0	0.	1386	8.4	0	0.	1386	3.6
13	0	0.	0	0.	0	0.	1446	8.7	0	0.	1446	3.7
14	0	0.	0	0.	0	0.	1437	8.7	0	0.	1437	3.7
15	0	0.	0	0.	0	0.	1328	8.0	0	0.	1328	3.4
16	0	0.	0	0.	55	0.3	1437	8.7	2	0.1	1494	3.9
17	0	0.	0	0.	44	0.3	1337	8.1	8	0.4	1389	3.6
18	0	0.	0	0.	68	0.4	1314	7.9	18	0.9	1400	3.6
19	0	0.	0	0.	55	0.3	1308	7.9	52	2.5	1415	3.6
20	0	0.	0	0.	48	0.3	1322	8.0	94	4.6	1464	3.8
21	0	0.	0	0.	0	0.	712	4.3	172	8.4	884	2.3
22	0	0.	0	0.	0	0.	279	1.7	332	16.3	611	1.6
23	0	0.	0	0.	0	0.	129	0.8	396	19.4	525	1.4
24	0	0.	0	0.	0	0.	39	0.2	290	14.2	329	0.8
25	0	0.	0	0.	0	0.	91	0.6	196	9.6	287	0.7
26	0	0.	0	0.	0	0.	80	0.5	147	7.2	227	0.6
27	0	0.	0	0.	0	0.	112	0.7	103	5.0	215	0.6
28	0	0.	0	0.	0	0.	45	0.3	87	4.3	132	0.3
29	0	0.	0	0.	0	0.	27	0.2	68	3.3	95	0.2
30	0	0.	0	0.	0	0.	0	0.	78	3.8	78	0.2

TOTAL	0	0.	3381	8.7	16813	43.4	16538	42.7	2043	5.3	36775	100.
• SEPS	0	0.	439	13.0	2993	17.8	1113	6.7	350	17.1	4895	12.6

PRJCTN	0	0.	2942	87.0	13820	82.2	15425	93.3	1693	82.9	33880	87.4

FIGURE 6 (continued)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 4

YG	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	542	35.5	0	0.	0	0.	0	0.	542	6.5
3	0	0.	618	40.5	0	0.	0	0.	0	0.	618	7.4
4	0	0.	367	24.0	482	14.5	0	0.	0	0.	849	10.1
5	0	0.	0	0.	34	1.0	0	0.	0	0.	34	0.4
6	0	0.	0	0.	619	18.6	0	0.	0	0.	619	7.4
7	0	0.	0	0.	632	19.0	0	0.	0	0.	632	7.5
8	0	0.	0	0.	532	16.0	0	0.	0	0.	532	6.3
9	0	0.	0	0.	476	14.3	2	0.0	0	0.	478	5.7
10	0	0.	0	0.	408	12.3	2	0.0	0	0.	410	4.9
11	0	0.	0	0.	137	4.1	320	15.2	0	0.	457	5.4
12	0	0.	0	0.	0	0.	353	16.7	0	0.	353	4.2
13	0	0.	0	0.	0	0.	265	12.6	0	0.	265	3.2
14	0	0.	0	0.	0	0.	198	9.4	0	0.	198	2.4
15	0	0.	0	0.	0	0.	310	14.7	0	0.	310	3.7
16	0	0.	0	0.	0	0.	369	17.5	2	0.1	371	4.4
17	0	0.	0	0.	0	0.	88	4.2	89	6.2	177	2.1
18	0	0.	0	0.	0	0.	54	2.6	89	6.2	143	1.7
19	0	0.	0	0.	0	0.	60	2.8	70	4.9	130	1.5
20	0	0.	0	0.	0	0.	90	4.3	107	7.4	197	2.3
21	0	0.	0	0.	0	0.	0	0.	142	9.8	142	1.7
22	0	0.	0	0.	0	0.	0	0.	176	12.2	176	2.1
23	0	0.	0	0.	0	0.	0	0.	205	14.2	205	2.4
24	0	0.	0	0.	0	0.	0	0.	182	12.6	182	2.2
25	0	0.	0	0.	0	0.	0	0.	133	9.2	133	1.6
26	0	0.	0	0.	0	0.	0	0.	80	5.5	80	1.0
27	0	0.	0	0.	0	0.	0	0.	62	4.3	62	0.7
28	0	0.	0	0.	0	0.	0	0.	35	2.4	35	0.4
29	0	0.	0	0.	0	0.	0	0.	41	2.8	41	0.5
30	0	0.	0	0.	0	0.	0	0.	30	2.1	30	0.4
TOTAL	0	0.	1527	18.2	3320	39.5	2111	25.1	1443	17.2	8401	100.
• SEPS	0	0.	109	7.1	139	4.2	307	14.5	119	8.2	674	8.0
PRJCTN	0	0.	1418	92.9	3181	95.8	1804	85.5	1324	91.8	7727	92.0

FIGURE 6 (continued)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 1 TO 51 ENTERING POPULATION AND SEPARATIONS FOR YEAR 5

Y6	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	3381	100.	0	0.	0	0.	0	0.	3381	9.1
3	0	0.	0	0.	2942	19.2	0	0.	0	0.	2942	7.9
4	0	0.	0	0.	2439	15.9	0	0.	0	0.	2439	6.5
5	0	0.	0	0.	2118	13.8	0	0.	0	0.	2118	5.7
6	0	0.	0	0.	1483	9.7	19	0.1	0	0.	1502	4.0
7	0	0.	0	0.	2166	14.2	36	0.2	0	0.	2202	5.9
8	0	0.	0	0.	1923	12.6	85	0.5	0	0.	2008	5.4
9	0	0.	0	0.	1376	9.0	154	0.9	0	0.	1530	4.1
10	0	0.	0	0.	680	4.4	889	5.4	0	0.	1569	4.2
11	0	0.	0	0.	3	0.0	1490	9.0	0	0.	1493	4.0
12	0	0.	0	0.	0	0.	1442	8.7	0	0.	1442	3.9
13	0	0.	0	0.	0	0.	1286	7.8	0	0.	1286	3.5
14	0	0.	0	0.	0	0.	1433	8.7	0	0.	1433	3.8
15	0	0.	0	0.	0	0.	1424	8.6	0	0.	1424	3.8
16	0	0.	0	0.	0	0.	1321	8.0	0	0.	1321	3.5
17	0	0.	0	0.	38	0.2	1418	8.6	2	0.1	1458	3.9
18	0	0.	0	0.	35	0.2	1339	8.1	8	0.4	1382	3.7
19	0	0.	0	0.	57	0.4	1314	7.9	27	1.3	1398	3.8
20	0	0.	0	0.	39	0.3	1309	7.9	55	2.7	1403	3.8
21	0	0.	0	0.	0	0.	708	4.3	151	7.4	859	2.3
22	0	0.	0	0.	0	0.	325	2.0	308	15.1	633	1.7
23	0	0.	0	0.	0	0.	103	0.6	393	19.2	496	1.3
24	0	0.	0	0.	0	0.	66	0.4	333	16.3	399	1.1
25	0	0.	0	0.	0	0.	35	0.2	255	12.5	290	0.8
26	0	0.	0	0.	0	0.	89	0.5	179	8.8	268	0.7
27	0	0.	0	0.	0	0.	69	0.4	99	4.8	168	0.5
28	0	0.	0	0.	0	0.	112	0.7	88	4.3	200	0.5
29	0	0.	0	0.	0	0.	45	0.3	77	3.8	122	0.3
30	0	0.	0	0.	0	0.	27	0.2	68	3.3	95	0.3
TOTAL	0	0.	3381	9.1	15299	41.1	16538	44.4	2043	5.5	37261	100.
• SEPS	1490	30.6	439	13.0	2552	16.7	1137	6.9	342	16.7	5960	16.0
PRJCTN	0	0.	2942	87.0	12747	83.3	15401	93.1	1701	83.3	31301	84.0

FIGURE 6 (continued)

• • • SCENARIO S1 - "STEADY STATE" • • •

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 5

YR	LEVEL 1		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	0	0.	0	0.	0	0.	0	0.	0	0.	0	0.
2	0	0.	542	38.9	0	0.	0	0.	0	0.	542	4.4
3	0	0.	537	38.5	0	0.	0	0.	0	0.	537	6.5
4	0	0.	315	22.6	285	8.6	0	0.	0	0.	600	7.3
5	0	0.	1	0.0	762	23.0	0	0.	0	0.	763	9.2
6	0	0.	0	0.	34	1.0	0	0.	0	0.	34	0.4
7	0	0.	0	0.	574	17.3	0	0.	0	0.	574	6.9
8	0	0.	0	0.	602	18.1	0	0.	0	0.	602	7.3
9	0	0.	0	0.	526	15.8	2	0.0	0	0.	528	6.4
10	0	0.	0	0.	471	14.2	3	0.1	0	0.	474	5.7
11	0	0.	0	0.	66	2.0	342	16.2	0	0.	408	4.9
12	0	0.	0	0.	0	0.	401	19.0	0	0.	401	4.8
13	0	0.	0	0.	0	0.	351	16.6	0	0.	351	4.2
14	0	0.	0	0.	0	0.	263	12.5	0	0.	263	3.2
15	0	0.	0	0.	0	0.	198	9.4	0	0.	198	2.4
16	0	0.	0	0.	0	0.	304	14.4	3	0.2	307	3.7
17	0	0.	0	0.	0	0.	92	4.4	105	7.3	197	2.4
18	0	0.	0	0.	0	0.	42	2.0	101	7.0	143	1.7
19	0	0.	0	0.	0	0.	53	2.5	90	6.2	143	1.7
20	0	0.	0	0.	0	0.	60	2.8	70	4.9	130	1.6
21	0	0.	0	0.	0	0.	0	0.	107	7.4	107	1.3
22	0	0.	0	0.	0	0.	0	0.	142	9.8	142	1.7
23	0	0.	0	0.	0	0.	0	0.	176	12.2	176	2.1
24	0	0.	0	0.	0	0.	0	0.	195	13.5	195	2.4
25	0	0.	0	0.	0	0.	0	0.	159	11.0	159	1.9
26	0	0.	0	0.	0	0.	0	0.	107	7.4	107	1.3
27	0	0.	0	0.	0	0.	0	0.	76	5.3	76	0.9
28	0	0.	0	0.	0	0.	0	0.	36	2.5	36	0.4
29	0	0.	0	0.	0	0.	0	0.	35	2.4	35	0.4
30	0	0.	0	0.	0	0.	0	0.	41	2.8	41	0.5
TOTAL	0	0.	1395	16.9	3320	40.1	2111	25.5	1443	17.5	8269	100.
• SEPS	648	42.4	91	6.5	67	2.1	246	11.7	141	9.8	1195	14.5
PRJCTN	0	0.	1304	93.5	3251	97.9	1865	88.3	1302	90.2	7074	85.5

*** PROMOTION FAILURE INTO LEVEL 3 REQ= 679 ELIGIBLES 624

FIGURE 7: S1 Year-End Strength for Year 1

*** SCENARIO S1 - "STEADY STATE" ***												
AUTHORIZATION(A) VS. YEAR END STRENGTH(B) FOR YEAR 1												
CATEGORY 1 SKILLS1												
SKL	LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF	
	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	TOTAL	TOTAL B
1	6	6(100)	22	22(100)	31	30(97)	12	12(100)	71	70(99)	0.5	0.5
2	12	11(92)	21	21(100)	49	48(98)	12	12(100)	94	92(98)	0.7	0.7
3	14	14(100)	67	59(88)	165	156(95)	28	28(100)	274	257(94)	2.0	2.0
17	6	6(100)	25	24(96)	16	16(100)	0	0(000)	47	46(98)	0.4	0.4
18	9	9(100)	73	62(85)	55	55(100)	0	0(000)	137	127(93)	1.0	1.0
19	9	9(100)	40	36(90)	27	27(100)	8	8(100)	84	80(95)	0.6	0.6
20	7	7(100)	132	106(80)	85	88(104)	4	5(125)	228	206(90)	1.6	1.6
21	75	77(103)	338	300(89)	181	188(104)	28	28(100)	622	593(95)	4.6	4.6
22	90	90(100)	708	590(83)	633	625(99)	58	58(100)	1489	1363(92)	10.5	10.5
23	1	1(100)	7	7(100)	9	9(100)	0	0(000)	17	17(100)	0.1	0.1
24	1	1(100)	8	7(88)	11	12(109)	0	0(000)	20	20(100)	0.2	0.2
25	2	2(100)	5	6(120)	12	12(100)	0	0(000)	19	20(105)	0.2	0.2
27	290	294(101)	1730	1484(86)	1087	1101(101)	94	96(102)	3201	2975(93)	23.0	23.0
28	24	27(113)	162	137(85)	122	124(102)	23	23(100)	331	311(94)	2.4	2.4
29	171	175(102)	1192	1004(84)	899	896(100)	167	159(95)	2429	2234(92)	17.3	17.3
30	58	57(98)	344	296(86)	246	250(102)	0	4(000)	648	607(94)	4.7	4.7
31	3	3(100)	21	19(90)	25	25(100)	40	36(90)	89	83(93)	0.6	0.6
32	119	120(101)	441	404(92)	254	263(104)	33	34(103)	847	821(97)	6.3	6.3
33	195	192(98)	1151	988(86)	508	538(106)	98	92(94)	1952	1810(93)	14.0	14.0
36	77	77(100)	366	322(88)	241	247(102)	19	23(121)	703	669(95)	5.2	5.2
48	54	55(102)	43	62(144)	287	269(94)	33	34(103)	417	420(101)	3.2	3.2
51	15	14(93)	56	53(95)	44	45(102)	5	6(120)	120	118(98)	0.9	0.9
TOTAL	1238	1247(101)	6952	6009(86)	4987	5024(101)	662	659(100)	13839	12939(93)	100.0	100.0

FIGURE 7 (continued)

CATEGORY 2 SKILLS:		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF	
SKL		--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	(%)	--A--	--B--
4		355	352(99)	541	611(113)	559	549(98)	95	89(94)	1550	1601(103)	20.5	
5		19	19(100)	28	26(93)	44	44(100)	2	2(100)	93	91(98)	1.2	
6		151	151(100)	483	454(94)	573	558(97)	90	86(96)	1297	1249(96)	16.0	
7		23	23(100)	67	63(94)	95	92(97)	17	18(106)	202	196(97)	2.5	
8		64	63(98)	151	152(101)	202	197(98)	31	31(100)	448	443(99)	5.7	
9		31	32(103)	155	136(88)	151	149(99)	20	22(110)	357	339(95)	4.3	
10		67	67(100)	638	525(82)	553	548(99)	41	44(107)	1299	1184(91)	15.2	
11		0	0(00)	16	12(75)	31	30(97)	0	1(00)	47	43(91)	0.6	
12		30	31(103)	212	179(84)	212	210(99)	15	18(120)	469	438(93)	5.6	
13		76	76(100)	439	379(86)	394	390(99)	60	56(93)	969	901(93)	11.5	
14		16	16(100)	59	54(92)	49	51(104)	0	1(00)	124	122(98)	1.6	
16		38	37(97)	217	187(86)	200	199(100)	21	23(110)	476	446(94)	5.7	
26		77	79(103)	411	358(87)	290	293(101)	25	27(108)	803	757(94)	9.7	
TOTAL		947	946(100)	3417	3136(92)	3353	3310(99)	417	418(100)	8134	7810(96)	100.0	

FIGURE 7 (continued)

CATEGORY 3 SKILLS:											
SKL	LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF TOTAL 8
	--A--	--B-- (X)	--A--	--B-- (X)	--A--	--B-- (X)	--A--	--B-- (X)	--A--	--B-- (X)	
15	8	9(113)	148	118(80)	167	163(98)	21	23(110)	344	313(91)	1.4
34	65	65(100)	237	217(92)	227	226(100)	24	25(104)	553	533(96)	2.5
35	51	51(100)	175	164(94)	332	319(96)	55	51(93)	613	585(95)	2.7
37	159	165(104)	600	547(91)	425	430(101)	36	38(106)	1220	1180(97)	5.5
38	184	187(102)	501	486(97)	474	467(99)	61	58(95)	1220	1198(98)	5.5
39	92	95(103)	340	312(92)	171	178(104)	12	15(125)	615	600(98)	2.8
40	214	214(100)	966	853(88)	544	560(103)	32	36(113)	1756	1663(95)	7.7
41	54	57(106)	322	278(86)	226	230(102)	11	14(127)	613	579(94)	2.7
42	66	66(100)	417	357(86)	237	246(104)	25	27(108)	745	696(93)	3.2
43	345	346(100)	1361	1231(90)	1320	1294(98)	128	130(102)	3154	3001(95)	13.9
44	2	2(100)	44	34(77)	93	89(96)	5	6(120)	144	131(91)	0.6
45	73	74(101)	223	209(94)	219	218(100)	31	31(100)	546	532(97)	2.5
46	430	430(100)	1568	1437(92)	1426	1405(99)	142	143(101)	3566	3415(96)	15.8
47	130	135(104)	499	453(91)	777	742(95)	210	194(92)	1616	1524(94)	7.0
49	466	465(100)	2042	1816(89)	726	787(108)	65	66(102)	3299	3134(95)	14.5
50	347	347(100)	1396	1260(90)	834	847(102)	106	105(99)	2683	2559(95)	11.8
TOTAL	2686	2708(101)	10839	9772(90)	8198	8201(100)	964	962(100)	22687	21643(95)	100.0
GRAND TOTAL	4871	4901(101)	21208	18917(89)	16538	16535(100)	2043	2039(100)	44660	42392(95)	100.0

FIGURE 7 (continued)

CATEGORY 1 SKILLS:									
SKL	LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		PCT OF TOTAL B
	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	
52	126	134(106)	126	156(124)	38	48(126)	24	25(104)	314 363(116)
53	66	64(97)	64	80(125)	18	23(128)	16	17(106)	164 184(112)
54	53	55(104)	53	66(125)	74	66(89)	31	33(106)	211 220(104)
55	124	118(95)	123	153(124)	26	34(131)	13	12(92)	286 317(111)
56	24	24(100)	23	30(130)	5	7(140)	3	3(100)	55 64(116)
57	40	40(100)	40	50(125)	56	50(89)	23	24(104)	159 164(103)
58	44	40(91)	41	53(129)	15	17(113)	7	5(71)	107 115(107)
59	45	40(89)	45	55(122)	42	41(98)	6	7(117)	138 143(104)
60	32	26(81)	28	37(132)	28	26(93)	4	5(125)	92 94(102)
61	34	28(82)	34	43(126)	8	12(150)	4	4(100)	80 87(109)
62	57	49(86)	54	70(130)	10	16(160)	8	8(100)	129 143(111)
63	26	22(85)	25	32(128)	10	13(130)	0	0(***)	61 67(110)
64	37	32(86)	36	47(131)	9	13(144)	0	0(***)	82 92(112)
65	9	8(89)	9	12(133)	2	3(150)	0	0(***)	20 23(115)
66	30	24(80)	27	36(133)	9	12(133)	3	3(100)	69 75(109)
72	177	156(88)	385	382(99)	269	259(96)	201	195(97)	1032 992(96)
73	57	55(96)	113	116(103)	78	77(99)	44	46(105)	292 294(101)
84	0	1(***)	19	15(79)	27	24(89)	30	31(103)	76 71(93)
TOTAL	981	916(93)	1245	1433(115)	724	741(102)	417	418(100)	3367 3508(104)
									100.0

FIGURE 7 (continued)

CATEGORY 2 SKILLS:		LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF TOTAL B	
--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--
SKL													
67	17	14(82)	24	27(113)	19	19(100)	2	3(150)	62	63(102)		3.9	
68	41	37(90)	50	58(116)	20	23(115)	3	4(133)	114	122(107)		7.5	
69	75	67(89)	361	316(88)	196	197(101)	120	118(98)	752	698(93)		43.0	
70	1	1(100)	205	164(80)	161	153(95)	96	95(99)	463	413(89)		25.4	
76	0	0(00)	17	14(82)	3	5(167)	2	2(100)	22	21(95)		1.3	
85	33	29(88)	142	126(89)	81	84(104)	69	67(97)	325	306(94)		18.9	
TOTAL	167	148(89)	799	705(88)	480	481(100)	292	289(99)	1738	1623(93)		100.0	

CATEGORY 3 SKILLS:			LEVEL 3			LEVEL 5			LEVEL 7			LEVEL 9			TOTAL			PCT OF	
SKL	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	
71	0	0(000)	18	15(83)	2	4(200)	1	1(100)	21	1(100)	21	20(95)	21	20(95)	21	20(95)	0.6	0.6	
74	23	23(100)	127	112(88)	62	65(105)	30	32(107)	242	232(96)	242	232(96)	242	232(96)	242	232(96)	7.4	7.4	
75	50	44(88)	108	107(99)	64	65(102)	65	63(97)	287	279(97)	287	279(97)	287	279(97)	287	279(97)	8.8	8.8	
77	7	7(100)	57	47(82)	34	36(106)	25	26(104)	123	116(94)	123	116(94)	123	116(94)	123	116(94)	3.7	3.7	
78	26	22(85)	94	86(91)	57	57(100)	51	50(98)	228	215(94)	228	215(94)	228	215(94)	228	215(94)	6.8	6.8	
79	0	0(000)	20	17(85)	4	6(150)	2	2(100)	26	25(96)	26	25(96)	26	25(96)	26	25(96)	0.8	0.8	
80	31	26(84)	99	92(93)	65	65(100)	87	85(98)	282	268(95)	282	268(95)	282	268(95)	282	268(95)	8.5	8.5	
81	0	0(000)	1	1(100)	1	1(100)	17	17(100)	19	19(100)	19	19(100)	19	19(100)	19	19(100)	0.6	0.6	
82	48	41(85)	113	112(99)	53	56(106)	41	42(102)	255	251(98)	255	251(98)	255	251(98)	255	251(98)	8.0	8.0	
83	25	25(100)	119	105(88)	99	94(95)	110	107(97)	353	331(94)	353	331(94)	353	331(94)	353	331(94)	10.5	10.5	
86	20	17(85)	35	38(109)	25	25(100)	58	57(98)	138	137(99)	138	137(99)	138	137(99)	138	137(99)	4.3	4.3	
87	24	24(100)	47	48(102)	63	56(89)	30	32(107)	164	160(98)	164	160(98)	164	160(98)	164	160(98)	5.1	5.1	
88	0	0(000)	121	98(81)	206	179(87)	120	118(98)	447	395(88)	447	395(88)	447	395(88)	447	395(88)	12.5	12.5	
89	125	119(95)	192	207(108)	104	107(103)	53	54(102)	474	487(103)	474	487(103)	474	487(103)	474	487(103)	15.4	15.4	
90	0	0(000)	102	82(80)	47	52(111)	40	41(103)	189	175(93)	189	175(93)	189	175(93)	189	175(93)	5.5	5.5	
91	0	0(000)	23	20(87)	21	19(90)	4	5(125)	48	44(92)	48	44(92)	48	44(92)	48	44(92)	1.4	1.4	
TOTAL	379	348(92)	1276	1187(93)	907	887(98)	734	732(100)	3296	3154(96)	3296	3154(96)	3296	3154(96)	3296	3154(96)	100.0	100.0	

[illegible]

FIGURE 8: SI PCS Reports for Years 1-4

SCENARIO SI - "STEADY STATE" * * *

REPORTS FOR YEAR 1

FROM SILL 1 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INPA-CONUS	4071	3672	276	64	19	8102
TO SCHOOL	4071	0	7	2	3	4083
FROM SCHOOL	0	3429	10	0	2	3441
LEVY	0	243	259	62	14	578
OVERSEAS TO CONUS	0	924	3487	2688	594	7693
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	924	3481	2681	590	7676
OTHER	0	0	6	7	4	17
CONUS TO OVERSEAS	0	949	2997	2585	585	7116
FROM SCHOOL	0	150	0	0	0	150
LEVY	0	799	2997	2585	585	6966
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	4071	5545	6760	5337	1198	22911

FIGURE 8 (continued)

FROM SCHOOL 5 TO 6	LEVFL 1	LEVFL 3	LEVFL 5	LEVFL 7	LEVFL 9	TOTAL
INTRA-CONUS	106	89	0	0	2	197
TO SCHOOL	106	0	0	0	0	106
FROM SCHOOL	0	89	0	0	1	90
LEVY	0	0	0	0	1	1
OVERSEAS TO CONUS	0	26	85	111	24	246
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	26	85	111	24	246
OTHER	0	0	0	0	0	0
CONUS TO OVERSEAS	0	49	96	106	21	272
FROM SCHOOL	0	16	0	0	0	16
LEVY	0	33	96	106	21	256
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	106	164	181	217	47	715

FIGURE 8 (continued).

	1	10	51	
	LEVFL 1	LEVEL 3	LEVEL 5	LEVEL 7
	LEVFL 9	LEVEL 11	LEVEL 13	LEVEL 15
	LEVFL 17	LEVEL 19	LEVEL 21	LEVEL 23
	LEVFL 25	LEVEL 27	LEVEL 29	LEVEL 31
	LEVFL 33	LEVEL 35	LEVEL 37	LEVEL 39
	LEVFL 41	LEVEL 43	LEVEL 45	LEVEL 47
	LEVFL 49	LEVEL 51	LEVEL 53	LEVEL 55
	LEVFL 57	LEVEL 59	LEVEL 61	LEVEL 63
	LEVFL 65	LEVEL 67	LEVEL 69	LEVEL 71
	LEVFL 73	LEVEL 75	LEVEL 77	LEVEL 79
	LEVFL 81	LEVEL 83	LEVEL 85	LEVEL 87
	LEVFL 89	LEVEL 91	LEVEL 93	LEVEL 95
	LEVFL 97	LEVEL 99	LEVEL 101	LEVEL 103
	LEVFL 105	LEVEL 107	LEVEL 109	LEVEL 111
	LEVFL 113	LEVEL 115	LEVEL 117	LEVEL 119
	LEVFL 121	LEVEL 123	LEVEL 125	LEVEL 127
	LEVFL 129	LEVEL 131	LEVEL 133	LEVEL 135
	LEVFL 137	LEVEL 139	LEVEL 141	LEVEL 143
	LEVFL 145	LEVEL 147	LEVEL 149	LEVEL 151
	LEVFL 153	LEVEL 155	LEVEL 157	LEVEL 159
	LEVFL 161	LEVEL 163	LEVEL 165	LEVEL 167
	LEVFL 169	LEVEL 171	LEVEL 173	LEVEL 175
	LEVFL 177	LEVEL 179	LEVEL 181	LEVEL 183
	LEVFL 185	LEVEL 187	LEVEL 189	LEVEL 191
	LEVFL 193	LEVEL 195	LEVEL 197	LEVEL 199
	LEVFL 201	LEVEL 203	LEVEL 205	LEVEL 207
	LEVFL 209	LEVEL 211	LEVEL 213	LEVEL 215
	LEVFL 217	LEVEL 219	LEVEL 221	LEVEL 223
	LEVFL 225	LEVEL 227	LEVEL 229	LEVEL 231
	LEVFL 233	LEVEL 235	LEVEL 237	LEVEL 239
	LEVFL 241	LEVEL 243	LEVEL 245	LEVEL 247
	LEVFL 249	LEVEL 251	LEVEL 253	LEVEL 255
	LEVFL 257	LEVEL 259	LEVEL 261	LEVEL 263
	LEVFL 265	LEVEL 267	LEVEL 269	LEVEL 271
	LEVFL 273	LEVEL 275	LEVEL 277	LEVEL 279
	LEVFL 281	LEVEL 283	LEVEL 285	LEVEL 287
	LEVFL 289	LEVEL 291	LEVEL 293	LEVEL 295
	LEVFL 297	LEVEL 299	LEVEL 301	LEVEL 303
	LEVFL 305	LEVEL 307	LEVEL 309	LEVEL 311
	LEVFL 313	LEVEL 315	LEVEL 317	LEVEL 319
	LEVFL 321	LEVEL 323	LEVEL 325	LEVEL 327
	LEVFL 329	LEVEL 331	LEVEL 333	LEVEL 335
	LEVFL 337	LEVEL 339	LEVEL 341	LEVEL 343
	LEVFL 345	LEVEL 347	LEVEL 349	LEVEL 351
	LEVFL 353	LEVEL 355	LEVEL 357	LEVEL 359
	LEVFL 361	LEVEL 363	LEVEL 365	LEVEL 367
	LEVFL 369	LEVEL 371	LEVEL 373	LEVEL 375
	LEVFL 377	LEVEL 379	LEVEL 381	LEVEL 383
	LEVFL 385	LEVEL 387	LEVEL 389	LEVEL 391
	LEVFL 393	LEVEL 395	LEVEL 397	LEVEL 399
	LEVFL 401	LEVEL 403	LEVEL 405	LEVEL 407
	LEVFL 409	LEVEL 411	LEVEL 413	LEVEL 415
	LEVFL 417	LEVEL 419	LEVEL 421	LEVEL 423
	LEVFL 425	LEVEL 427	LEVEL 429	LEVEL 431
	LEVFL 433	LEVEL 435	LEVEL 437	LEVEL 439
	LEVFL 441	LEVEL 443	LEVEL 445	LEVEL 447
	LEVFL 449	LEVEL 451	LEVEL 453	LEVEL 455
	LEVFL 457	LEVEL 459	LEVEL 461	LEVEL 463
	LEVFL 465	LEVEL 467	LEVEL 469	LEVEL 471
	LEVFL 473	LEVEL 475	LEVEL 477	LEVEL 479
	LEVFL 481	LEVEL 483	LEVEL 485	LEVEL 487
	LEVFL 489	LEVEL 491	LEVEL 493	LEVEL 495
	LEVFL 497	LEVEL 499	LEVEL 501	LEVEL 503
	LEVFL 505	LEVEL 507	LEVEL 509	LEVEL 511
	LEVFL 513	LEVEL 515	LEVEL 517	LEVEL 519
	LEVFL 521	LEVEL 523	LEVEL 525	LEVEL 527
	LEVFL 529	LEVEL 531	LEVEL 533	LEVEL 535
	LEVFL 537	LEVEL 539	LEVEL 541	LEVEL 543
	LEVFL 545	LEVEL 547	LEVEL 549	LEVEL 551
	LEVFL 553	LEVEL 555	LEVEL 557	LEVEL 559
	LEVFL 561	LEVEL 563	LEVEL 565	LEVEL 567
	LEVFL 569	LEVEL 571	LEVEL 573	LEVEL 575
	LEVFL 577	LEVEL 579	LEVEL 581	LEVEL 583
	LEVFL 585	LEVEL 587	LEVEL 589	LEVEL 591
	LEVFL 593	LEVEL 595	LEVEL 597	LEVEL 599
	LEVFL 601	LEVEL 603	LEVEL 605	LEVEL 607
	LEVFL 609	LEVEL 611	LEVEL 613	LEVEL 615
	LEVFL 617	LEVEL 619	LEVEL 621	LEVEL 623
	LEVFL 625	LEVEL 627	LEVEL 629	LEVEL 631
	LEVFL 633	LEVEL 635	LEVEL 637	LEVEL 639
	LEVFL 641	LEVEL 643	LEVEL 645	LEVEL 647
	LEVFL 649	LEVEL 651	LEVEL 653	LEVEL 655
	LEVFL 657	LEVEL 659	LEVEL 661	LEVEL 663
	LEVFL 665	LEVEL 667	LEVEL 669	LEVEL 671
	LEVFL 673	LEVEL 675	LEVEL 677	LEVEL 679
	LEVFL 681	LEVEL 683	LEVEL 685	LEVEL 687
	LEVFL 689	LEVEL 691	LEVEL 693	LEVEL 695
	LEVFL 697	LEVEL 699	LEVEL 701	LEVEL 703
	LEVFL 705	LEVEL 707	LEVEL 709	LEVEL 711
	LEVFL 713	LEVEL 715	LEVEL 717	LEVEL 719
	LEVFL 721	LEVEL 723	LEVEL 725	LEVEL 727
	LEVFL 729	LEVEL 731	LEVEL 733	LEVEL 735
	LEVFL 737	LEVEL 739	LEVEL 741	LEVEL 743
	LEVFL 745	LEVEL 747	LEVEL 749	LEVEL 751
	LEVFL 753	LEVEL 755	LEVEL 757	LEVEL 759
	LEVFL 761	LEVEL 763	LEVEL 765	LEVEL 767
	LEVFL 769	LEVEL 771	LEVEL 773	LEVEL 775
	LEVFL 777	LEVEL 779	LEVEL 781	LEVEL 783
	LEVFL 785	LEVEL 787	LEVEL 789	LEVEL 791
	LEVFL 793	LEVEL 795	LEVEL 797	LEVEL 799
	LEVFL 801	LEVEL 803	LEVEL 805	LEVEL 807
	LEVFL 809	LEVEL 811	LEVEL 813	LEVEL 815
	LEVFL 817	LEVEL 819	LEVEL 821	LEVEL 823
	LEVFL 825	LEVEL 827	LEVEL 829	LEVEL 831
	LEVFL 833	LEVEL 835	LEVEL 837	LEVEL 839
	LEVFL 841	LEVEL 843	LEVEL 845	LEVEL 847
	LEVFL 849	LEVEL 851	LEVEL 853	LEVEL 855
	LEVFL 857	LEVEL 859	LEVEL 861	LEVEL 863
	LEVFL 865	LEVEL 867	LEVEL 869	LEVEL 871
	LEVFL 873	LEVEL 875	LEVEL 877	LEVEL 879
	LEVFL 881	LEVEL 883	LEVEL 885	LEVEL 887
	LEVFL 889	LEVEL 891	LEVEL 893	LEVEL 895
	LEVFL 897	LEVEL 899	LEVEL 901	LEVEL 903
	LEVFL 905	LEVEL 907	LEVEL 909	LEVEL 911
	LEVFL 913	LEVEL 915	LEVEL 917	LEVEL 919
	LEVFL 921	LEVEL 923	LEVEL 925	LEVEL 927
	LEVFL 929	LEVEL 931	LEVEL 933	LEVEL 935
	LEVFL 937	LEVEL 939	LEVEL 941	LEVEL 943
	LEVFL 945	LEVEL 947	LEVEL 949	LEVEL 951
	LEVFL 953	LEVEL 955	LEVEL 957	LEVEL 959
	LEVFL 961	LEVEL 963	LEVEL 965	LEVEL 967
	LEVFL 969	LEVEL 971	LEVEL 973	LEVEL 975
	LEVFL 977	LEVEL 979	LEVEL 981	LEVEL 983
	LEVFL 985	LEVEL 987	LEVEL 989	LEVEL 991
	LEVFL 993	LEVEL 995	LEVEL 997	LEVEL 999
	LEVFL 1001	LEVEL 1003	LEVEL 1005	LEVEL 1007
	LEVFL 1009	LEVEL 1011	LEVEL 1013	LEVEL 1015
	LEVFL 1017	LEVEL 1019	LEVEL 1021	LEVEL 1023
	LEVFL 1025	LEVEL 1027	LEVEL 1029	LEVEL 1031
	LEVFL 1033	LEVEL 1035	LEVEL 1037	LEVEL 1039
	LEVFL 1041	LEVEL 1043	LEVEL 1045	LEVEL 1047
	LEVFL 1049	LEVEL 1051	LEVEL 1053	LEVEL 1055
	LEVFL 1057	LEVEL 1059	LEVEL 1061	LEVEL 1063
	LEVFL 1065	LEVEL 1067	LEVEL 1069	LEVEL 1071
	LEVFL 1073	LEVEL 1075	LEVEL 1077	LEVEL 1079
	LEVFL 1081	LEVEL 1083	LEVEL 1085	LEVEL 1087
	LEVFL 1089	LEVEL 1091	LEVEL 1093	LEVEL 1095
	LEVFL 1097	LEVEL 1099	LEVEL 1101	LEVEL 1103
	LEVFL 1105	LEVEL 1107	LEVEL 1109	LEVEL 1111
	LEVFL 1113	LEVEL 1115	LEVEL 1117	LEVEL 1119
	LEVFL 1121	LEVEL 1123	LEVEL 1125	LEVEL 1127
	LEVFL 1129	LEVEL 1131	LEVEL 1133	LEVEL 1135
	LEVFL 1137	LEVEL 1139	LEVEL 1141	LEVEL 1143
	LEVFL 1145	LEVEL 1147	LEVEL 1149	LEVEL 1151
	LEVFL 1153	LEVEL 1155	LEVEL 1157	LEVEL 1159
	LEVFL 1161	LEVEL 1163	LEVEL 1165	LEVEL 1167
	LEVFL 1169	LEVEL 1171	LEVEL 1173	LEVEL 1175
	LEVFL 1177	LEVEL 1179	LEVEL 1181	LEVEL 1183
	LEVFL 1185	LEVEL 1187	LEVEL 1189	LEVEL 1191
	LEVFL 1193	LEVEL 1195	LEVEL 1197	LEVEL 1199
	LEVFL 1201	LEVEL 1203	LEVEL 1205	LEVEL 1207
	LEVFL 1209	LEVEL 1211	LEVEL 1213	LEVEL 1215
	LEVFL 1217	LEVEL 1219	LEVEL 1221	LEVEL 1223
	LEVFL 1225	LEVEL 1227	LEVEL 1229	LEVEL 1231
	LEVFL 1233	LEVEL 1235	LEVEL 1237	LEVEL 1239
	LEVFL 1241	LEVEL 1243	LEVEL 1245	LEVEL 1247
	LEVFL 1249	LEVEL 1251	LEVEL 1253	LEVEL 1255
	LEVFL 1257	LEVEL 1259	LEVEL 1261	LEVEL 1263
	LEVFL 1265	LEVEL 1267	LEVEL 1269	LEVEL 1271
	LEVFL 1273	LEVEL 1275	LEVEL 1277	LEVEL 1279
	LEVFL 1281	LEVEL 1283	LEVEL 1285	LEVEL 1287
	LEVFL 1289	LEVEL 1291	LEVEL 1293	LEVEL 1295
	LEVFL 1297	LEVEL 1299	LEVEL 1301	LEVEL 1303
	LEVFL 1305	LEVEL 1307	LEVEL 1309	LEVEL 1311
	LEVFL 1313	LEVEL 1315	LEVEL 1317	LEVEL 1319
	LEVFL 1321	LEVEL 1323	LEVEL 1325	LEVEL 1327
	LEVFL 1329	LEVEL 1331	LEVEL 1333	LEVEL 1335
	LEVFL 1337	LEVEL 1339	LEVEL 1341	LEVEL 1343
	LEVFL 1345	LEVEL 1347	LEVEL 1349	LEVEL 1351
	LEVFL 1353	LEVEL 1355	LEVEL 1357	LEVEL 1359
	LEVFL 1361	LEVEL 1363	LEVEL 1365	LEVEL 1367
	LEVFL 1369	LEVEL 1371	LEVEL 1373	LEVEL 1375
	LEVFL 1377	LEVEL 1379	LEVEL 1381	LEVEL 1383
	LEVFL 1385	LEVEL 1387	LEVEL 1389	LEVEL 1391
	LEVFL 1393	LEVEL 1395	LEVEL 1397	LEVEL 1399
	LEVFL 1401	LEVEL 1403	LEVEL 1405	LEVEL 1407
	LEVFL 1409	LEVEL 1411	LEVEL 1413	LEVEL 1415
	LEVFL 1417	LEVEL 1419	LEVEL 1421	LEVEL 1423
	LEVFL 1425	LEVEL 1427	LEVEL 1429	LEVEL 1431
	LEVFL 1433	LEVEL 1435	LEVEL 1437	LEVEL 1439
	LEVFL 1441	LEVEL 1443	LEVEL 1445	LEVEL 1447
	LEVFL 1449	LEVEL 1451	LEVEL 1453	LEVEL 1455
	LEVFL 1457	LEVEL 1459	LEVEL 1461	LEVEL 1463
	LEVFL 1465	LEVEL 1467	LEVEL 1469	LEVEL 1471
	LEVFL 1473	LEVEL 1475	LEVEL 1477	LEVEL 1479
	LEVFL 1481	LEVEL 1483	LEVEL 1485	LEVEL 1487
	LEVFL 1489	LEVEL 1491	LEVEL 1493	LEVEL 1495
	LEVFL 1497	LEVEL 1499	LEVEL 1501	LEVEL 1503
	LEVFL 1505	LEVEL 1507	LEVEL 1509	LEVEL 1511
	LEVFL 1513	LEVEL 1515	LEVEL 1517	LEVEL 1519
	LEVFL 1521	LEVEL 1523	LEVEL 1525	LEVEL 1527
	LEVFL 1529	LEVEL 1531	LEVEL 1533	LEVEL 1535
	LEVFL 1537	LEVEL 1539	LEVEL 1541	LEVEL 1543
	LEVFL 1545	LEVEL 1547	LEVEL 1549	LEVEL 1551
	LEVFL 1553	LEVEL 1555	LEVEL 1557	LEVEL 1559
	LEVFL 1561	LEVEL 1563	LEVEL 1565	LEVEL 1567
	LEVFL 1569	LEVEL 1571	LEVEL 1573	LEVEL 1575
	LEVFL 1577	LEVEL 1579	LEVEL 1581	LEVEL 1583
	LEVFL 1585	LEVEL 1587	LEVEL 1589	LEVEL 1591
	LEVFL 1593	LEVEL 1595	LEVEL 1597	LEVEL 1599
	LEVFL 1601	LEVEL 1603	LEVEL 1605	LEVEL 1607
	LEVFL 1609	LEVEL 1611	LEVEL 1613	LEVEL 1615
	LEVFL 1617	LEVEL 1619	LEVEL 1621	LEVEL 1623
	LEVFL 1625	LEVEL 1627	LEVEL 1629	LEVEL 1631
	LEVFL 1633	LEVEL 1635	LEVEL 1637	LEVEL 1639
	LEVFL 1641	LEVEL 1643	LEVEL 1645	LEVEL 1647
	LEVFL 1649	LEVEL 1651	LEVEL 1653	LEVEL 1655
	LEVFL 1657	LEVEL 1659	LEVEL 1661	LEVEL 1663
	LEVFL 1665	LEVEL 1667	LEVEL 1669	LEVEL 1671
	LEVFL 1673	LEVEL 1675	LEVEL 1677	LEVEL 1679
	LEVFL 1681	LEVEL 1683	LEVEL 1685	LEVEL 1687
	LEVFL 1689	LEVEL 1691	LEVEL 1693	LEVEL 1695
	LEVFL 1697	LEVEL 1699	LEVEL 1701	LEVEL 1703
	LEVFL 1705	LEVEL 1707	LEVEL 1709	LEVEL 1711
	LEVFL 1713	LEVEL 1715	LEVEL 1717	LEVEL 1719
	LEVFL 1721	LEVEL 1723	LEVEL 1725	LEVEL 1727
	LEVFL 1729	LEVEL 1731	LEVEL 1733	LEVEL 1735
	LEVFL 1737	LEVEL 1739	LEVEL 1741	LEVEL 1743
	LEVFL 1745	LEVEL 1747	LEVEL 1749	LEVEL 1751
	LEVFL 1753	LEVEL 1755	LEVEL 1757	LEVEL 1759
	LEVFL 1761	LEVEL 1763	LEVEL 1765	LEVEL 1767
	LEVFL 1769	LEVEL 1771	LEVEL 1773	LEVEL 1775
	LEVFL 1777	LEVEL 1779	LEVEL 1781	LEVEL 1783
	LEVFL 1785	LEVEL 1787	LEVEL 1789	LEVEL 1791
	LEVFL 1793	LEVEL 1795	LEVEL 1797	LEVEL 1799
	LEVFL 1801	LEVEL 1803	LEVEL 1805	LEVEL 1807
	LEVFL 1809	LEVEL 1811	LEVEL 1813	LEVEL 1815
	LEVFL 1817	LEVEL 1819	LEVEL 1821	LEVEL 1823
	LEVFL 1825	LEVEL 1827	LEVEL 1829	LEVEL 1831
	LEVFL 1833	LEVEL 1835	LEVEL 1837	LEVEL 1839
	LEVFL 1841	LEVEL 1843	LEVEL 1845	LEVEL 1847
	LEVFL 1849	LEVEL 1851	LEVEL 1853	LEVEL 1855
	LEVFL 1857	LEVEL 1859	LEVEL 1861	LEVEL 1863
	LEVFL 1865</			

FIGURE 8 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
FROM SCHOOL 52 TO 91						
INTRA-CONUS	704	704	84	33	3	1528
TO SCHOOL	704	0	0	0	0	704
FROM SCHOOL	0	637	1	0	0	638
LEVY	0	67	83	33	3	186
OVERSEAS TO CONUS	0	253	527	339	237	1356
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	253	521	332	235	1341
OTHER	0	0	6	7	2	15
CONUS TO OVERSEAS	0	259	492	325	235	1311
FROM SCHOOL	0	62	0	0	0	62
LEVY	0	197	492	325	235	1249
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	704	1216	1103	697	475	4195

FIGURE 8 (continued)

PLS REPORTS FOR YEAR 2

FROM SKILL 1 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INIKIA-CONUS	3993	2997	337	86	32	7445
TO SCHOOL	3993	0	6	1	1	4001
FROM SCHOOL	0	2922	17	1	0	2940
LEVY	0	75	314	84	31	504
OVERSEAS TO CONUS	0	372	2500	1917	264	5053
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	368	2481	1911	259	5019
OTHER	0	4	19	6	5	34
CONUS TO OVERSEAS	0	1035	2061	1813	276	5185
FROM SCHOOL	0	523	0	0	0	523
LEVY	0	512	2061	1813	276	4662
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	3993	4404	4898	3916	572	17683

FIGURE 8 (continued)

FROM SKILL 6 TO 6	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS TO SCHOOL	104	82	0	0	2	188
FROM SCHOOL LEVY	104	0	0	0	0	104
	0	82	0	0	0	82
	0	0	0	0	2	2
OVERSEAS TO CONUS TO SCHOOL	0	11	60	95	9	175
ROTATION	0	0	0	0	0	0
OTHER	0	7	52	95	9	163
	0	4	8	0	0	12
CONUS TO OVERSEAS FROM SCHOOL	0	37	68	95	7	207
LEVY	0	23	0	0	0	23
	0	14	68	95	7	184
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	104	130	128	190	18	570

FIGURE 8 (continued)

FROM SCHOOL 1 TO 51

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS TO SCHOOL	3386	2548	276	47	19	6276
FROM SCHOOL	3386	0	6	1	1	3394
LEVY	0	2512	12	1	0	2525
	0	36	258	45	18	357
OVERSEAS TO CONUS TO SCHOOL	0	239	2202	1749	153	4343
ROTATION	0	0	0	0	0	0
OTHER	0	235	2191	1749	150	4325
	0	4	11	0	3	18
CONUS TO OVERSEAS FROM SCHOOL	0	799	1790	1649	163	4401
LEVY	0	358	0	0	0	358
	0	441	1790	1649	163	4043
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	3386	3586	4268	3445	335	15020

FIGURE 8 (continued)

FROM SKILL 52 TO 91							
	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL	
CONUS TO CONUS FROM SCHOOL LEVY	607	449	61	39	13	1169	
	607	0	0	0	0	607	
	0	410	5	0	0	415	
	0	39	56	39	13	147	
OVERSEAS TO CONUS TO SCHOOL ROTATION OTHER	0	133	298	168	111	710	
	0	0	0	0	0	0	
	0	133	290	162	109	694	
	0	0	8	6	2	16	
CONUS TO OVERSEAS FROM SCHOOL LEVY	0	236	271	164	113	784	
	0	165	0	0	0	165	
	0	71	271	164	113	619	
	0	0	0	0	0	0	
TOTAL							2663

FIGURE 8 (continued)

REPORTS FOR YEAR 3							
FROM SKILL 1 TO 91							
	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL	
INTRA-CONUS	3847	2898	300	72	27	7144	
TO SCHOOL	3847	0	1	1	0	3849	
FROM SCHOOL	0	2887	3	1	0	2891	
LEVY	0	11	296	70	27	404	
OVERSEAS TO CONUS	0	402	2921	2330	415	6068	
TO SCHOOL	0	0	0	0	0	0	
ROTATION	0	398	2911	2322	406	6037	
OTHER	0	4	10	8	9	31	
CONUS TO OVERSEAS	0	986	2632	2272	451	6341	
FROM SCHOOL	0	515	0	0	0	515	
LEVY	0	471	2632	2272	451	5826	
OVERSEAS TO OVERSEAS	0	0	0	0	0	0	
TOTAL	3847	4286	5853	4674	893	19553	

FIGURE 8 (continued)

FROM SKILL 6 TO 6	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INITIAL-CONUS TO SCHOOL	105	105	0	0	0	210
FROM SCHOOL	105	0	0	0	0	105
LEVY	0	105	0	0	0	105
	0	0	0	0	0	0
OVERSEAS TO CONUS TO SCHOOL	0	16	65	108	12	201
ROTATION	0	0	0	0	0	0
OTHER	0	13	61	108	10	192
	0	3	4	0	2	9
CONUS TO OVERSEAS FROM SCHOOL	0	30	86	108	13	237
LEVY	0	0	0	0	0	0
	0	30	86	108	13	237
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	105	151	151	216	25	648

FIGURE 8 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS TO SCHOOL	3379	2458	238	41	16	6132
FROM SCHOOL	3379	0	1	1	0	3381
LEVY	0	2456	1	1	0	2458
	0	2	236	39	16	293
OVERSEAS TO CONUS TO SCHOOL	0	237	2520	2090	247	5094
ROTATION	0	0	0	0	0	0
OTHER	0	233	2514	2090	242	5079
	0	4	6	0	5	15
CONUS TO OVERSEAS FROM SCHOOL	0	726	2221	2020	259	5226
LEVY	0	440	0	0	0	440
	0	286	2221	2020	259	4786
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	3379	3421	4979	4151	522	16452

FIGURE 8 (continued)

FROM SKILL 52 TO 91							
	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL	
INTRA-CONUS TO SCHOOL FROM SCHOOL LEVY	468	440	62	31	11	1012	
	468	0	0	0	0	468	
	0	431	2	0	0	433	
	0	9	60	31	11	111	
OVERSEAS TO CONUS TO SCHOOL ROTATION OTHER	0	165	401	240	168	974	
	0	0	0	0	0	0	
	0	165	397	232	164	958	
	0	0	4	8	4	16	
CONUS TO OVERSEAS FROM SCHOOL LEVY	0	260	411	252	192	1115	
	0	75	0	0	0	75	
	0	185	411	252	192	1040	
	0	0	0	0	0	0	
OVERSEAS TO OVERSEAS	0	0	0	0	0	0	
TOTAL	468	865	874	523	371	3101	

FIGURE 8 (continued)

DEPARTMENT REPORTS FOR YEAR 4

FROM SKILL 1 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS	3684	2833	334	76	49	6976
TO SCHOOL	3684	0	0	4	0	3688
FROM SCHOOL	0	2809	4	4	0	2817
LEVY	0	24	330	68	49	471
OVERSEAS TO CONUS	0	478	2778	2309	427	5992
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	466	2766	2300	419	5951
OTHER	0	12	12	9	8	41
CONUS TO OVERSEAS	0	901	2525	2246	458	6130
FROM SCHOOL	0	564	0	0	0	564
LEVY	0	337	2525	2246	458	5566
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	3684	4212	5637	4631	934	19004

FIGURE 8 (continued)

FROM SKILL 6 TO 6	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS TO SCHOOL	105	105	0	0	0	210
FROM SCHOOL	105	0	0	0	0	105
LEVY	0	105	0	0	0	105
	0	0	0	0	0	0
OVERSEAS TO CONUS	0	12	70	107	15	204
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	7	67	107	13	194
OTHER	0	5	3	0	2	10
CONUS TO OVERSEAS	0	35	89	107	23	254
FROM SCHOOL	0	0	0	0	0	0
LEVY	0	35	89	107	23	254
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	105	152	159	214	38	668

FIGURE 8 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS TO SCHOOL	3346	2428	274	36	27	6111
FROM SCHOOL	3346	0	0	4	0	3350
LEVY	0	2425	0	4	0	2429
	0	3	274	28	27	332
OVERSEAS TO CONUS TO SCHOOL	0	272	2392	2073	246	4983
ROTATION	0	0	0	0	0	0
OTHER	0	262	2388	2072	239	4961
	0	10	4	1	7	22
CONUS TO OVERSEAS FROM SCHOOL	0	628	2132	2002	265	5027
LEVY	0	494	0	0	0	494
	0	134	2132	2002	265	4533
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	3346	3328	4798	4111	534	16121

FIGURE 8 (continued)

FROM SKILL 52 TO 91	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS TO SCHOOL	338	405	60	40	22	865
FROM SCHOOL LEVY	338	0	0	0	0	338
	0	384	4	0	0	388
	0	21	56	40	22	139
OVERSEAS TO CONUS TO SCHOOL	0	206	386	236	181	1009
ROTATION	0	0	0	0	0	0
OTHER	0	204	378	228	180	990
	0	2	8	8	1	19
CONUS TO OVERSEAS FROM SCHOOL	0	273	393	244	193	1103
LEVY	0	70	0	0	0	70
	0	203	393	244	193	1033
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	338	884	839	520	396	2977

FIGURE 9: S1 Assignment Model Projections for Year 1

• • • SCENARIO S1 - "STEADY STATE" • • •

PERIOD 1 PROJECTIONS FOR SKILL 6

	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5
TOS STATUS	0	0	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	---
NEW SUPPLY	0	1	8	9	9	9	9	9	10	10	10	10	10	10	9	9	9	9	141
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND	0	0	2	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	10
LEVEL 5																			
INIT. SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
- SEPS	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
- UPG OUT	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2
- UPG IN	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	5
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOS STATUS	0	1	16	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	---
NEW SUPPLY	0	3	31	31	32	32	32	32	32	32	32	32	32	32	31	30	30	30	475
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND	0	0	1	1	1	0	0	-1	0	0	0	0	0	0	1	2	2	2	8
LEVEL 7																			
INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
- SEPS	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
- UPG OUT	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1
- UPG IN	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOS STATUS	0	1	18	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18	---
NEW SUPPLY	0	3	37	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	563
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	10

FIGURE 9 (continued)

PERIOD 1 PROJECTIONS FOR SKILL 6																				
LEVEL 9		BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
NEW SUPPLY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
AUTHORIZED		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
DEMAND		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LEVEL 3		BASE	1	2	3	4	5	6	7	8	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1

FIGURE 9 (continued)

PERIOD 2 PROJECTIONS FOR SKILL 6																			
		BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
LEVEL 7																			
INIT. SUPPLY		0	3	38	38	38	38	38	38	38	38	38	38	38	37	38	38	38	572
SEPS		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	13
UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOS STATUS		0	1	18	18	19	19	19	19	20	19	19	19	19	18				
NEW SUPPLY		0	3	37	37	38	38	38	38	39	38	38	38	38	37	35	35	34	558
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND		0	0	1	1	0	0	0	0	-1	0	0	0	0	1	3	3	3	15
TOTAL RPOOL																			
LEVEL 9																			
INIT. SUPPLY		0	0	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
SEPS		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4
UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS		0	0	2	3	3	3	3	3	3	3	3	3	3	3				
NEW SUPPLY		0	0	5	6	6	6	6	6	6	6	6	6	6	6	5	5	5	86
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND		0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4
TOTAL RPOOL																			
LEVEL 3																			
INIT. SUPPLY		0	1	10	9	10	10	10	10	10	10	10	11	11	11	9	9	9	149
OVS VLRBLTY		0	0.01	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09				1.0
LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
ROTATEES		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TOS STATUS		0	0	6	6	6	6	6	6	6	6	6	6	6	6				
NEW SUPPLY		0	1	10	10	10	10	10	10	10	10	10	10	11	11	10	10	10	153
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND		0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	-2

FIGURE 9 (continued)

LEVEL 5																																		
INIT. SUPPLY	0	3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
OVS VLNRLTY	0.	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
- LEVY OUT	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
+ ROTATEES	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOS STATUS	0	1	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
NEW SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
AUTHORIZED*	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LEVEL 7																																		
INIT. SUPPLY	0	3	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
OVS VLNRLTY	0.	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
- LEVY OUT	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
+ ROTATEES	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOS STATUS	0	1	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
NEW SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
AUTHORIZED*	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LEVEL 9																																		
INIT. SUPPLY	0	0	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
OVS VLNRLTY	0.	0.	0.07	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
- LEVY OUT	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
+ ROTATEES	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOS STATUS	0	0	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
NEW SUPPLY	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
AUTHORIZED*	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FIGURE 9 (continued)

PERIOD 3 PROJECTIONS FOR SKILL 6																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 TOTAL RPOOL
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	11	11	10	10	10	153
- SEPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NEW SUPPLY	0	0	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	150
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LEVEL 5																		
INIT. SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	31	31	32	32	32	481
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
- UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NEW SUPPLY	0	1	18	18	20	19	19	19	19	19	19	19	17	18	18	30	30	473
AUTHORIZED	0	3	31	31	32	32	32	32	32	32	32	32	31	32	31	30	30	483
DEMAND	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	2	10
LEVEL 7																		
INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	36	38	38	38	571
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	8
TOS STATUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NEW SUPPLY	0	1	20	20	19	19	19	19	19	19	19	19	19	17	17	36	36	562
AUTHORIZED	0	3	37	38	38	38	38	38	38	38	38	38	38	36	37	36	36	573
DEMAND	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	2	11
LEVEL 9 NO CHANGE																		

FIGURE 9 (continued)

PERIOD 3 PROJECTIONS FOR SKILL 6																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9
OVS VLNRLTY	0.	0.01	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	1.0
LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOS STATUS	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
NEW SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 5																		
INIT. SUPPLY	0	3	31	31	32	32	32	32	32	32	32	32	32	31	32	31	30	30
OVS VLNRLTY	0.	0.00	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.0
LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOS STATUS	0	1	19	19	20	20	20	20	20	20	20	20	19	17	18	17	18	18
NEW SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 7																		
INIT. SUPPLY	0	3	37	38	38	38	38	38	38	38	38	38	38	36	37	36	35	35
OVS VLNRLTY	0.	0.00	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.0
LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOS STATUS	0	1	21	20	20	20	20	20	20	20	20	20	19	17	17	17	17	17
NEW SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	37	36	36	36	36	36
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 9																		
NO CHANGE																		

FIGURE 9 (continued)

PERIOD 4 PROJECTIONS FOR SKILL 4																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 TOTAL RPOOL
NO CHANGE																		
LEVEL 5																		
INIT. SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	30	31	32	32	32	480
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	5
TOS STATUS	0	1	18	19	20	20	20	20	20	20	19	17	18	18	17	17	17	---
NEW SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	30	31	31	31	30	475
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	583
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	2	8
LEVEL 7																		
INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	37	36	38	38	38	570
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
TOS STATUS	0	1	20	20	20	20	20	20	20	20	20	20	19	17	17	17	17	---
NEW SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	37	36	37	36	36	563
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	2	10
LEVEL 9																		
NO CHANGE																		

FIGURE 9 (continued)

PERIOD 4 PROJECTIONS FOR SKILL 6																			
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
NO CHANGE																			
LEVEL 5																			
INIT. SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	30	31	31	31	30	30	475
OVS VLNRBLTY	0.	0.00	0.08	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09					1.0
LEVY OUT	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	5
ROTATEES	0	0	0	1	1	1	0	0	0	0	0	1	2	0	0	0	0	0	5
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5
TOS STATUS																			
NEW SUPPLY	0	1	18	19	20	20	20	20	20	20	20	20	19	18					
AUTHORIZED*	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	480
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3
LEVEL 7																			
INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	37	36	37	36	36	36	563
OVS VLNRBLTY	0.	0.00	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09					1.0
LEVY OUT	0	0	0	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	7
ROTATEES	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	7
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
TOS STATUS																			
NEW SUPPLY	0	1	20	21	21	21	21	21	21	21	20	20	20	17					
AUTHORIZED*	0	3	38	38	38	38	38	38	38	38	38	38	38	35	38	38	38	38	570
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
LEVEL 9																			
NO CHANGE																			

FIGURE 9 (continued)

PERIOD 5 PROJECTIONS FOR SKILL 6																		
LEVEL 3																		
BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	0	0	5	5	6	6	6	6	6	6	6	6	5	5	5	5	5	149
NEW SUPPLY	0	1	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	151
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LEVEL 5																		
INIT. SUPPLY	0	3	32	32	32	32	32	32	32	32	32	31	30	32	32	32	32	580
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5
- UPG IN	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	0	1	17	19	20	19	19	19	19	19	19	18	17	17	17	17	17	474
NEW SUPPLY	0	3	31	32	32	32	32	32	32	32	32	31	30	31	31	31	30	474
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	1	1	0	0	0	0	0	0	0	1	2	1	1	1	2	9
LEVEL 7																		
INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	35	38	38	38	38	570
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
TOS STATUS	0	1	19	20	20	20	20	20	20	20	19	19	16	16	16	16	16	562
NEW SUPPLY	0	3	37	38	38	38	38	38	38	38	38	38	35	37	36	36	36	562
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	1	1	0	0	0	0	0	0	0	0	3	1	2	2	2	11
LEVEL 9																		
NO CHANGE																		

FIGURE 9 (continued)

PERIOD 5 PROJECTIONS FOR SKILL 6																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 TOTAL RPOOL
NO CHANGE																		
LEVEL 5																		
INIT. SUPPLY	0	3	31	32	32	32	32	32	32	32	32	32	31	30	31	31	30	474
OVS VLNRLTY	0.	0.00	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.0
- LEVY OUT	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	5
+ ROTATEES	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	5
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	5
TOS STATUS	0	1	18	19	20	20	20	20	20	20	19	19	18	17				
NEW SUPPLY	0	3	32	32	32	32	32	32	32	32	31	32	31	30	32	32	32	479
AUTHORIZED*	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	4
LEVEL 7																		
INIT. SUPPLY	0	3	37	38	38	38	38	38	38	38	38	38	38	35	37	36	36	562
OVS VLNRLTY	0.	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.0
- LEVY OUT	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	7
+ ROTATEES	0	0	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	7
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
TOS STATUS	0	1	20	21	21	21	20	20	20	20	20	20	20	16				
NEW SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	34	38	38	38	569
AUTHORIZED*	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
LEVEL 9																		
NO CHANGE																		

FIGURE 9 (continued)

PERIOD 4 PROJECTIONS FOR SKILL 4																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INIT. SUPPLY	0	1	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	149
- SEPS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4
- UPG OUT	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	4
TOS STATUS	0	0	5	5	5	5	5	5	5	5	6	6	6	5	-	-	-	-
NEW SUPPLY	0	1	9	9	9	9	9	9	9	10	10	10	10	10	9	9	9	140
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	11
LEVEL 5	INIT. SUPPLY	0	3	32	32	32	32	32	32	32	31	32	31	30	32	32	32	479
- SEPS	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
- UPG OUT	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
+ UPG IN	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	4
TOS STATUS	0	1	17	18	18	20	20	21	21	19	19	18	17	-	-	-	-	-
NEW SUPPLY	0	3	31	31	31	32	32	33	33	31	32	31	30	31	30	30	30	471
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	1	1	1	1	0	0	-1	-1	1	0	1	2	1	2	2	12
LEVEL 7	INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	34	38	38	38	569
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	9
+ UPG IN	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	0	1	18	20	21	21	21	20	20	20	20	20	20	16	-	-	-	-
NEW SUPPLY	0	3	37	37	38	38	39	38	38	38	38	38	34	36	36	36	35	559
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	1	1	1	0	0	-1	0	0	0	0	0	4	2	2	3	14

FIGURE 9 (continued)

PERIOD 6 PROJECTIONS FOR SKILL 6																			
	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 9																			
INIT. SUPPLY	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
- SEPS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOS STATUS	0	0	0	2	4	4	4	4	3	3	3	3	3	3	3	3	3	3	89
NEW SUPPLY	0	0	0	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
AUTHORIZED	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LEVEL 3																			
INIT. SUPPLY	0	1	9	9	9	9	9	9	9	9	10	10	10	10	9	9	9	9	140
OVS VLMRBLTY	0	0.01	0.07	0.07	0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.11	0.09	0.11	0	0	0	0	1.0
- LEVY OUT	0	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	4
+ ROTATEES	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	4
* LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
TOS STATUS	0	0	6	7	6	5	5	5	5	5	6	6	6	5	5	5	5	5	0
NEW SUPPLY	0	1	10	10	9	9	9	9	9	10	10	9	10	9	10	10	10	10	144
AUTHORIZED*	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	7
LEVEL 5																			
INIT. SUPPLY	0	3	31	31	31	32	32	33	33	33	31	32	31	30	31	30	30	30	471
OVS VLMRBLTY	0	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.09	0.09	0	0	0	0	1.0
- LEVY OUT	0	0	1	1	1	0	0	0	0	1	0	1	1	1	0	0	0	0	7
+ ROTATEES	0	0	2	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	7
* LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
TOS STATUS	0	1	19	20	20	20	20	21	21	21	20	19	18	17	17	17	17	17	0
NEW SUPPLY	0	3	32	32	32	32	32	32	32	32	32	31	30	29	32	32	32	32	478
AUTHORIZED*	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	5

FIGURE 9 (continued)

LEVEL 7		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL
INIT. SUPPLY	0	3	37	37	38	38	38	39	38	38	38	38	38	38	34	36	36	35	559
OVS VLMRRLTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
- LEVY OUT	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	9
+ ROTATEES	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	9
TOS STATUS	0	1	20	22	21	21	21	21	21	21	21	21	21	21	16	-	-	-	-
NEW SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	38	33	38	38	38	568
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5

NO CHANGE

PERIOD 7 PROJECTIONS FOR SKILL 6

LEVEL 3		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL
INIT. SUPPLY	0	1	10	10	9	9	9	9	9	9	10	9	10	9	10	10	10	10	144
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4
- UPG OUT	0	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	4
TOS STATUS	0	0	5	6	6	5	5	5	5	5	5	5	5	5	-	-	-	-	-
NEW SUPPLY	0	1	9	9	9	9	9	9	9	9	9	9	9	9	8	9	9	9	135
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	14

LEVEL 5		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL
INIT. SUPPLY	0	3	32	32	32	32	32	32	33	32	32	31	30	29	32	32	32	32	478
- SEPS	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN	0	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	4
TOS STATUS	0	1	18	19	19	19	19	19	19	20	19	18	18	14	-	-	-	-	-
NEW SUPPLY	0	3	31	32	31	32	32	32	32	32	32	31	31	29	31	30	30	29	468
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	1	0	1	0	1	0	0	0	0	1	1	1	3	1	2	2	15

FIGURE 9 (continued)

[illegible]

FIGURE 9 (continued)

LEVEL 5			0	3	31	32	31	32	32	32	32	32	31	31	29	30	29	466
INIT. SUPPLY	0.	0.00	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0	0	1.0
OVS VLRBLTY	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
+ ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
TOS STATUS	0	1	19	20	20	20	20	20	21	20	21	20	20	18	16	32	32	477
NEW SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	32	30	28	32	32	0
AUTHORIZED*	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6
LEVEL 7			0	3	37	38	38	38	38	38	38	39	38	38	33	35	34	556
INIT. SUPPLY	0.	0.00	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0	0	1.0
OVS VLRBLTY	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
+ ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
TOS STATUS	0	1	20	23	22	21	21	21	21	21	21	21	21	21	16	38	38	568
NEW SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	38	33	38	38	0
AUTHORIZED*	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
LEVEL 9			0	0	5	5	6	6	6	6	6	6	6	6	6	5	5	84
INIT. SUPPLY	0.	0.	0.07	0.05	0.07	0.07	0.07	0.07	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0	0	1.0
OVS VLRBLTY	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
+ ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TOS STATUS	0	0	3	4	4	4	4	4	4	4	4	4	4	4	3	3	3	88
NEW SUPPLY	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0
AUTHORIZED*	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

FIGURE 9 (continued)

PERIOD 8 PROJECTIONS FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	0	1	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	136
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
- UPG OUT	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	9
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TOS STATUS	0	0	4	5	5	4	4	5	4	4	4	5	4	4	4	4	4	4	---
NEW SUPPLY	0	1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	121
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
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DEMAND	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	30
LEVEL 5																			
INIT. SUPPLY	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	477
- SEPS	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	9
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	4	12
- UPG OUT	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	3
+ UPG IN	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	9
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TOS STATUS	0	1	17	18	19	19	19	20	21	20	20	19	17	17	17	17	17	17	---
NEW SUPPLY	0	3	31	31	31	31	31	32	32	32	32	32	31	29	30	29	29	28	462
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
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DEMAND	0	0	1	1	1	1	1	1	0	0	0	0	1	3	2	3	3	4	21
LEVEL 7																			
INIT. SUPPLY	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	568
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	4	13
- UPG OUT	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	3
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TOS STATUS	0	1	18	21	22	21	22	21	21	21	21	21	21	16	16	16	16	16	---
NEW SUPPLY	0	3	37	37	38	38	38	38	38	38	38	38	38	38	38	38	38	38	554
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
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DEMAND	0	0	1	1	1	0	0	0	0	0	0	0	0	5	3	3	3	4	19

FIGURE 9 (continued)

PERIOD 8 PROJECTIONS FOR SKILL 4		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 9																			
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
SEPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
NEW SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
LEVEL 3 NO CHANGE																			
LEVEL 5																			
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	462
OVS VLNRBLTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
TOS STATUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
NEW SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	468
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	468
LEVEL 7																			
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	554
OVS VLNRBLTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
TOS STATUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
NEW SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	567
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	573

FIGURE 9 (continued)

[illegible]

PERIOD 9 PROJECTIONS FOR SKILL 6

LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL	RPOOL
INIT. SUPPLY	0	1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	121
- SEPS	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	4
- UPG OUT	0	0	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	17
TOS STATUS	0	0	3	3	3	3	3	3	4	3	3	4	3	3	-	-	-	-	-	-
NW SUPPLY	0	1	6	6	6	6	6	6	6	7	7	7	7	7	6	6	6	6	6	95
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	4	4	4	4	4	4	4	4	3	3	3	3	4	4	4	4	4	56

[illegible]

FIGURE 9 (continued)

PERIOD 9 PROJECTIONS FOR SKILL 6																			
LEVEL 7	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	3	36	38	38	38	38	38	38	38	38	38	38	32	38	38	38	38	567
- SEPS	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	4	12
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
+ UPG IN	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	6
TOS STATUS	0	1	18	22	21	20	21	22	21	21	21	21	21	15					
NEW SUPPLY	0	3	37	37	37	37	37	38	38	38	38	38	38	32	36	35	36	35	552
AUTHORIZED	0	3	36	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	1	1	1	1	1	1	0	0	0	0	0	6	2	3	2	3	21
LEVEL 9																			
INIT. SUPPLY	0	0	6	6	6	6	6	6	6	6	6	6	5	5	6	6	6	6	88
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
+ UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
TOS STATUS	0	0	3	3	3	5	5	4	4	4	4	4	3	3					
NEW SUPPLY	0	0	5	5	5	6	6	6	6	6	6	6	5	5	6	6	5	5	83
AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	1	1	1	1	0	0	0	0	0	0	1	1	0	0	1	1	7
LEVEL 3																			
INIT. SUPPLY	0	1	6	6	6	6	6	6	6	6	7	7	7	7	6	6	6	6	95
OVS VLNRLTY	0	0.02	0.07	0.07	0.07	0.07	0.07	0.07	0.05	0.10	0.12	0.10	0.10	0.12					1.0
- LEVY OUT	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	4
+ ROTATEES	0	0	1	1	1	1	1	1	1	2	1	1	0	1	0	0	0	0	11
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
TOS STATUS	0	0	4	4	4	4	4	4	5	5	4	5	3	4					
NEW SUPPLY	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
AUTHORIZED*	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FIGURE 9 (continued)

[illegible]

FIGURE 9 (continued)

PERIOD 10 PROJECTIONS FOR SKILL 6																			
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- UPG OUT	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	8
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOS STATUS	0	0	3	3	3	3	3	3	4	4	3	4	3	4	4	4	4	4	92
NEW SUPPLY	0	1	4	4	6	6	6	6	6	6	6	6	6	7	6	6	6	6	10
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND	0	0	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	59
LEVEL 5	INIT. SUPPLY	0	3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	468
- SEPS	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	8
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	9
- UPG OUT	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	3
- UPG IN	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	8
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOS STATUS	0	1	16	18	19	20	19	20	20	20	20	20	19	20	20	20	20	20	18
NEW SUPPLY	0	3	30	30	30	31	31	31	31	31	31	31	31	31	31	29	29	28	456
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND	0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	3	3	3	27
LEVEL 7	INIT. SUPPLY	0	3	37	37	37	37	37	38	37	37	37	37	37	37	37	37	37	559
- SEPS	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	9
- UPG OUT	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG IN	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	3
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOS STATUS	0	1	18	21	21	20	21	21	21	21	21	22	22	21	21	21	21	21	14
NEW SUPPLY	0	3	36	36	37	37	37	37	37	37	37	38	38	37	35	35	35	34	549
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND	0	0	2	2	2	1	1	1	1	1	1	1	0	1	3	3	3	4	24

FIGURE 9 (continued)

PERIOD 10 PROJECTIONS FOR SKILL 4																			
LEVEL 9	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	0	0	6	6	5	4	6	6	6	6	6	5	5	6	6	6	6	87
- SEPS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
+ UPG IN	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	0	0	0	3	5	5	5	4	4	4	4	4	3	3	3	3	3	3	---
NEW SUPPLY	0	0	0	5	6	6	6	6	6	6	6	6	5	5	5	5	5	5	83
AUTHORIZED	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	7
LEVEL 3																			
INIT. SUPPLY	0	1	6	6	6	6	6	6	6	6	6	6	6	7	6	6	6	6	92
QVS VLNRBLTY	0.	0.03	0.09	0.09	0.09	0.09	0.09	0.06	0.06	0.09	0.09	0.09	0.09	0.12	---	---	---	---	1.0
- LEVY OUT	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	4
- ROTATEES	0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	14
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
TOS STATUS	0	0	5	5	5	5	4	4	5	5	4	5	4	5	---	---	---	---	---
NEW SUPPLY	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
AUTHORIZED	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 5																			
INIT. SUPPLY	0	3	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	456
QVS VLNRBLTY	0.	0.01	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.09	0.09	0.10	0.09	---	---	---	---	1.0
- LEVY OUT	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	9
- ROTATEES	0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	12
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	9
TOS STATUS	0	1	18	20	20	21	21	20	20	21	21	21	20	21	---	---	---	---	---
NEW SUPPLY	0	3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	468
AUTHORIZED	0	3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	468
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FIGURE 9 (continued)

[illegible]

FIGURE 9 (continued)

PERIOD 11 PROJECTIONS FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- UPG OUT	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	12
TOS STATUS	0	0	4	4	4	4	3	3	4	4	3	4	3	4	-	-	-	-	-
NEW SUPPLY	0	1	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	88
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	63
LEVEL 5																			
INIT. SUPPLY	0	3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	468
- SEPS	0	0	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	13
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	8
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
- UPG IN	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	12
TOS STATUS	0	1	17	19	19	21	19	20	20	21	20	19	20	-	-	-	-	-	-
NEW SUPPLY	0	3	29	29	30	31	31	31	31	31	31	31	31	31	29	29	29	29	455
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	3	3	3	2	1	1	1	1	1	1	1	1	3	3	3	3	28
LEVEL 7																			
INIT. SUPPLY	0	3	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	558
- SEPS	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	5
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	9
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
- UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
TOS STATUS	0	1	19	20	20	19	20	21	21	21	21	21	21	21	-	-	-	-	-
NEW SUPPLY	0	3	36	36	36	36	36	37	37	37	37	37	37	37	35	36	36	35	547
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	2	2	2	2	2	2	1	1	1	1	1	1	3	2	2	3	26

FIGURE 9 (continued)

PERIOD 11 PROJECTIONS FOR SKILL 4																			
LEVEL 9	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
- SEPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
+ UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOS STATUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NEW SUPPLY	0	0	3	4	5	5	5	5	5	5	4	4	3	3	---	---	---	---	---
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
LEVEL 3																			
INIT. SUPPLY	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
OVS VLKRLTY	0.	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1.0
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
TOS STATUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NEW SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
LEVEL 5																			
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	455
OVS VLKRLTY	0.	0.01	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.0
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
TOS STATUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NEW SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---

FIGURE 9 (continued)

PERIOD 12 PROJECTIONS FOR SKILL 6																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INIT. SUPPLY	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
- SEPS	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4
- UPG OUT	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	17
TOS STATUS	0	0	4	3	3	3	4	4	4	4	4	5	4	5	-	-	-	-
NEW SUPPLY	0	0	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	85
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	1	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	66
LEVEL 5																		
INIT. SUPPLY	0	3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	468
- SEPS	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	17
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
- UPG OUT	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6
- UPG IN	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	17
TOS STATUS	0	1	19	21	21	21	19	21	20	22	21	20	20	20	-	-	-	-
NEW SUPPLY	0	4	30	30	30	30	30	30	30	31	31	31	31	31	30	29	29	455
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	-1	2	2	2	2	2	2	2	2	1	1	1	1	2	3	3	28
LEVEL 7																		
INIT. SUPPLY	0	3	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	558
- SEPS	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	7
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	9
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
- UPG IN	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	6
TOS STATUS	0	1	19	20	20	20	22	20	22	22	22	22	21	21	-	-	-	-
NEW SUPPLY	0	3	36	36	36	36	37	36	37	37	37	37	37	37	35	35	35	546
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	2	2	2	2	2	1	2	1	1	1	1	1	3	3	2	27

FIGURE 9 (continued)

PERIOD 12 PROJECTIONS FOR SKILL 6																			
LEVEL 9	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
- SEPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
+ UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOS STATUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUTHORIZED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 3	INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OVS VLNRBLTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ ROTATEES	0	1	2	3	3	3	3	2	2	1	1	1	1	1	0	0	0	0	21
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TOS STATUS	0	1	6	6	6	6	6	6	6	5	5	5	5	6	6	6	6	6	85
NEW SUPPLY	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
AUTHORIZED	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 5	INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OVS VLNRBLTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOS STATUS	0	1	22	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	484
NEW SUPPLY	0	4	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	12
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1

FIGURE 6 (continued)

LEVEL 7		LEVEL 9	
INIT. SUPPLY	INIT. SUPPLY	INIT. SUPPLY	INIT. SUPPLY
QVS VLNRLTY	QVS VLNRLTY	QVS VLNRLTY	QVS VLNRLTY
LEVY OUT	LEVY OUT	LEVY OUT	LEVY OUT
+ ROTATEES	+ ROTATEES	+ ROTATEES	+ ROTATEES
+ LEVY IN	+ LEVY IN	+ LEVY IN	+ LEVY IN
TOS STATUS	TOS STATUS	TOS STATUS	TOS STATUS
NEW SUPPLY	NEW SUPPLY	NEW SUPPLY	NEW SUPPLY
AUTHORIZED*	AUTHORIZED*	AUTHORIZED*	AUTHORIZED*
DEMAND	DEMAND	DEMAND	DEMAND

FIGURE 10: S1 Base Supplies for Year 1

• • • SCENARIO S1 - "STEADY STATE" • • •

PERIOD 1 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	BASE	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
SEPS		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
UPG OUT		0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	5
LEVY OUT		0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	4
ROTATEES		0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TT IN		0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	6
NEW SUPPLY		0	1	12	9	8	8	8	10	11	11	11	11	11	10	10	10	10	151
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND		0	0	-2	1	2	2	2	0	-1	-1	-1	-1	-1	0	0	0	0	0
LEVEL 5																			
INIT. SUPPLY		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
SEPS		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
UPG OUT		0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
UPG IN		0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	5
LEVY OUT		0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	7
ROTATEES		0	0	2	1	1	1	0	1	1	0	0	0	0	0	0	0	0	7
LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
NEW SUPPLY		0	3	32	33	32	32	31	32	32	31	32	32	32	32	32	32	32	482
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND		0	0	0	-1	0	0	1	0	0	1	0	0	0	0	0	0	0	1

FIGURE 10 (continued)

[illegible]

LEVEL 9												
INIT.	SUPPLY											
-	SEPS	0	0	4	6	6	6	6	6	6	6	90
+	UPG IN	0	0	0	0	0	1	0	0	0	0	1

	NEW SUPPLY	0	0	5	6	6	6	7	4	6	6	90
	AUTHORIZED	0	0	6	6	6	6	6	6	6	6	90

	DEMAND	0	0	1	0	0	0	-1	0	0	0	0

FIGURE 10 (continued)

PERIOD 2 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3	BASE	0	1	12	9	8	8	8	10	11	11	11	11	11	10	10	10	10	151
INIT. SUPPLY		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- SFPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- TT IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
NEW SUPPLY		0	1	10	10	8	11	11	10	10	10	9	10	11	10	10	10	10	151
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND		0	0	0	0	2	-1	-1	0	0	0	1	0	-1	0	0	0	0	0
LEVEL 5	INIT. SUPPLY	0	3	32	33	32	32	31	32	32	31	32	32	32	32	32	32	32	482
- SFPS		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	4	12
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
NEW SUPPLY		0	3	33	32	32	31	31	32	31	32	32	32	31	32	32	32	32	481
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND		0	0	-1	-1	0	1	1	0	1	0	0	0	1	0	0	0	0	2

FIGURE 10 (continued)

LEVEL 7													
INIT.	SUPPLY	0	3	38	37	38	38	38	39	38	38	38	38
-	SEPS	0	0	1	1	0	0	0	0	0	0	0	0
-	ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0
-	UPG OUT	0	0	0	0	0	0	0	1	0	0	0	0
-	UPG IN	0	0	0	0	0	0	0	1	0	1	0	0
-	LEVY OUT	0	0	2	2	1	1	1	1	1	1	1	0
-	ROTATEES	0	0	3	3	1	1	1	0	1	1	1	0
-	LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0
-	NEW SUPPLY	0	3	38	37	38	38	38	37	39	38	39	38
-	AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38
-	DEMAND	0	0	0	1	0	0	0	1	-1	0	-1	0

LEVEL 9														
INIT.	SUPPLY	0	0	5	6	6	6	7	6	6	6	6	6	90
- SEPS		0	0	1	0	0	0	0	0	0	0	0	0	1
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	1	1
+ UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT		0	0	0	1	1	1	1	0	0	0	0	0	1
+ ROTATEES		1	0	1	1	1	1	1	0	0	0	0	0	1
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	1	1
NEW SUPPLY		0	0	5	6	6	6	6	7	6	6	6	6	90
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	90
DEMAND		0	0	1	0	0	0	0	1	0	0	0	0	0

FIGURE 10 (continued)

PERIOD 3 ACTUAL SUPPLIES FOR SKILL 4																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																		
INIT. SUPPLY	0	1	10	10	8	11	11	10	10	10	9	10	11	10	10	10	10	151
- SEPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
+ ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ TT IN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
NEW SUPPLY	0	1	10	10	10	10	11	10	10	10	9	9	11	10	10	10	10	151
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	0	0	0	-1	0	0	0	1	1	-1	0	0	0	0	0
LEVEL 5																		
INIT. SUPPLY	0	3	33	33	32	31	31	32	31	32	32	32	31	32	32	32	32	481
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
+ UPG IN	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT	0	0	0	0	0	1	1	1	1	1	0	1	1	0	0	0	0	7
+ ROTATEES	0	0	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	7
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
NEW SUPPLY	0	3	33	33	32	32	31	32	31	32	32	31	30	32	32	32	32	480
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	-1	-1	0	0	1	0	1	0	0	1	2	0	0	0	0	3
LEVEL 7																		
INIT. SUPPLY	0	3	38	37	38	38	38	37	39	38	39	38	36	38	38	38	38	571
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8
- LEVY OUT	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	8
+ ROTATEES	0	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	8
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8
NEW SUPPLY	0	3	38	37	38	38	38	37	39	38	39	37	36	38	38	38	38	570
AUTHORIZED	0	3	38	39	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	0	1	0	0	0	1	-1	0	-1	1	2	0	0	0	0	3
LEVEL 9																		
NO CHANGE																		

FIGURE 10 (continued)

PERIOD 4 ACTUAL SUPPLIES FOR SKILL 6		NO CHANGE																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL	RPOOL
LEVEL 5																				
INIT. SUPPLY	0	3	33	33	33	33	32	31	32	31	32	32	31	30	32	32	32	32	480	
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5	
+ LEVY OUT	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	5	
- ROTATEES	0	0	0	0	1	1	0	0	0	0	0	1	2	0	0	0	0	0	5	
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5	
NEW SUPPLY	0	3	33	33	32	32	32	31	32	31	32	32	32	29	32	32	32	32	480	
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483	
DEMAND	0	0	-1	-1	0	0	0	1	0	1	0	0	0	3	0	0	0	0	3	
LEVEL 7																				
INIT. SUPPLY	0	3	38	37	38	38	38	37	37	39	38	39	37	36	38	38	38	38	570	
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7	
+ LEVY OUT	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	7	
- ROTATEES	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	7	
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
NEW SUPPLY	0	3	38	37	38	38	38	37	37	39	38	39	38	35	38	38	38	38	570	
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573	
DEMAND	0	0	0	1	0	0	0	1	-1	0	0	-1	0	3	0	0	0	0	3	
LEVEL 9																				
NO CHANGE																				

FIGURE 10 (continued)

PERIOD 5 ACTUAL SUPPLIES FOR SKILL 6																			
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	9	9	11	10	10	10	10	151
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ TT IN	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
NEW SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	151
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	1	-1	0	0	0	0	0
LEVEL 5																			
INIT. SUPPLY	0	3	33	33	32	32	31	32	31	32	32	32	32	29	32	32	32	32	480
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5
+ UPG IN	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	5
+ ROTATEES	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	5
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5
NEW SUPPLY	0	3	33	32	32	32	32	32	32	31	32	32	32	29	32	32	32	32	479
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	-1	0	0	0	0	0	0	1	1	0	0	3	0	0	0	0	4
LEVEL 7																			
INIT. SUPPLY	0	3	38	37	38	38	38	37	39	38	38	39	38	35	38	38	38	38	570
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
- LEVY OUT	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	7
+ ROTATEES	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	7
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
NEW SUPPLY	0	3	38	37	38	38	38	37	39	38	38	39	38	34	38	38	38	38	569
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	0	1	0	0	0	0	-1	0	-1	0	0	4	0	0	0	0	4
LEVEL 9																			
INIT. SUPPLY	0	0	5	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	90
+ TT IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
NEW SUPPLY	0	0	5	6	6	6	6	7	6	6	6	6	6	7	6	6	6	6	91
AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	1	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	-1

FIGURE 10 (continued)

PERIOD 4 ACTUAL SUPPLIES FOR SKILL 4																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 TOTAL RPOOL
LEVEL 3																	
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	9	11	10	10	10 151
- SEPS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4
- UPG OUT	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	4
- LEVY OUT	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	4
+ ROTATEES	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4
+ TT IN	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	5
NEW SUPPLY	0	1	10	11	10	10	10	10	10	10	10	10	9	10	10	10	151
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	-1	0	0	0	0	0	0	0	0	1	0	0	0	0
LEVEL 5																	
INIT. SUPPLY	0	3	33	32	32	32	32	32	31	31	32	32	29	32	32	32	479
- SEPS	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	4
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	7
- UPG OUT	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	4
- LEVY OUT	0	0	1	1	1	0	0	0	1	0	1	1	1	0	0	0	7
+ ROTATEES	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	7
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
NEW SUPPLY	0	3	33	33	32	32	32	32	30	32	31	31	29	32	32	32	478
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	-1	-1	0	0	0	0	2	0	1	1	3	0	0	0	5

FIGURE 10 (continued)

LEVEL 7		0	3	38	37	38	38	38	37	39	38	39	38	34	38	38	38	38	38	569
INIT. SUPPLY	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- SEPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	3
+ UPG IN	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY OUT	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1
- ROTATEES	0	0	2	2	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	9
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	3
NEW SUPPLY	0	3	39	37	38	38	37	37	37	39	38	39	38	33	38	38	38	38	38	568
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	-1	1	0	0	1	1	1	-1	0	-1	0	5	0	0	0	0	0	5

[illegible]

FIGURE 10 (continued)

PERIOD 7 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL	RPOOL
LEVEL 3																				
INIT. SUPPLY		0	1	10	11	10	10	10	10	10	10	10	10	9	10	10	10	10	151	
- SEPS		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
- UPG OUT		0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4	
- LEVY OUT		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
- ROTATEES		0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	4	
+ ROTATEES		0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1	
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
+ TT IN		0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	5	
NEW SUPPLY		0	1	10	11	11	10	10	10	11	10	10	10	10	10	9	9	9	151	
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151	
DEMAND		0	0	0	-1	-1	0	0	0	-1	0	0	0	0	0	1	1	1	0	
LEVEL 5																				
INIT. SUPPLY		0	3	33	33	32	32	32	32	30	32	31	31	29	32	32	32	32	478	
- SEPS		0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	4	
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	9	
- UPG OUT		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
+ UPG IN		0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4	
- LEVY OUT		0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	8	
+ ROTATEES		0	0	1	0	1	1	1	1	1	1	2	0	0	0	0	0	0	9	
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8	
NEW SUPPLY		0	3	33	32	33	33	33	31	30	32	32	32	30	31	32	32	32	477	
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483	
DEMAND		0	0	-1	0	-1	-1	-1	1	2	0	0	0	2	1	0	0	0	6	

FIGURE 10 (continued)

PERIOD 8 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY		0	1	10	11	11	10	10	10	11	10	10	10	10	10	9	9	9	151
- SEPS		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
- UPG OUT		0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	9
- ROTATEES		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- TT IN		0	0	0	1	0	0	1	1	0	1	1	1	0	1	2	2	0	11
NEW SUPPLY		0	1	10	11	11	10	10	10	10	10	10	10	10	10	10	10	8	151
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND		0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	2	0
LEVEL 5																			
INIT. SUPPLY		0	3	33	32	33	33	33	31	30	32	32	30	28	31	32	32	32	477
- SEPS		0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	9
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
- UPG OUT		0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
- UPG IN		0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	9
- LEVY OUT		0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	8
- ROTATEES		0	0	0	0	2	3	2	1	0	0	0	1	3	0	0	0	0	12
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8
NEW SUPPLY		0	3	32	32	34	34	33	31	29	31	31	31	30	30	31	31	31	474
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND		0	0	0	0	-2	-2	-1	1	3	1	1	1	1	2	1	1	1	9

FIGURE 10 (continued)

[illegible][illegible]

FIGURE 10 (continued)

PERIOD 9 ACTUAL SUPPLIES FOR SKILL 4		TOTAL RPOOL																
LEVEL 3		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INIT. SUPPLY		0	1	10	11	11	10	10	10	10	10	10	10	10	10	10	10	151
SEPS		0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	5
ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
UPG OUT		0	0	1	2	2	1	1	1	1	1	1	1	1	1	1	1	17
LEVY OUT		0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	4
ROTATEES		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TT IN		0	0	2	1	2	2	2	1	2	2	2	1	2	1	0	0	22
NEW SUPPLY		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LEVEL 5		1	2	3	32	32	34	34	33	31	29	31	31	31	30	30	31	31	31	479
INIT. SUPPLY		0	0	0	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	17
SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
UPG OUT		0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	6
LEVY IN		0	0	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	17
LEVY OUT		0	0	1	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	9
ROTATEES		0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	9
NEW SUPPLY		0	3	32	32	33	31	31	31	29	28	30	30	30	29	31	31	33	35	468
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

FIGURE 10 (continued)

[illegible][illegible]

FIGURE 10 (continued)

PERIOD 10 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	BASE	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TT IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SUPPLY		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEVEL 5																			
INIT. SUPPLY	BASE	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	468
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SUPPLY		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	468
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	468
DEMAND		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FIGURE 10 (continued)

LEVEL 7															
INIT.	SUPPLY	0	3	38	38	38	38	39	38	37	37	37	37	36	564
-	SEPS	0	0	1	0	0	0	0	0	1	0	0	0	0	3
-	ROYATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	6
-	UPG OUT	0	0	0	0	1	0	0	0	0	0	0	2	2	0
-	UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-	LEVY OUT	0	0	0	0	1	1	1	0	0	0	0	0	1	3
-	ROYATEES	0	0	1	0	1	1	0	1	1	1	0	0	0	9
-	LEVY IN	0	0	2	1	1	0	1	0	0	0	0	0	0	6
-	NEW SUPPLY	0	3	38	38	38	38	38	36	37	36	37	37	38	563
-	AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	573
-	DEMAND	0	0	0	0	0	0	0	2	2	2	2	1	0	10

LEVEL 9															
INIT.	SUPPLY	0	0	5	6	5	6	6	7	5	6	6	6	6	88
-	SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	1
-	ROYATEES	0	0	0	0	0	0	0	0	0	0	0	1	1	4
-	UPG IN	0	0	0	0	1	0	0	0	0	0	0	0	0	1
-	LEVY OUT	0	0	0	0	0	0	1	1	0	0	0	0	0	4
-	ROYATEES	0	0	1	0	0	0	1	1	0	0	0	0	0	4
-	LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	4
-	NEW SUPPLY	0	0	5	6	6	6	7	6	5	6	6	6	6	88
-	AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	90
-	DEMAND	0	0	1	0	0	0	0	1	1	0	0	0	0	2

FIGURE 10 (continued)

PERIOD JJ ACTUAL SUPPLIES FOR SKILL 6																		
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	10	9	9	10	10	11	151
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
- UPG OUT	0	0	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	12
- LEVY OUT	0	0	1	0	1	0	1	1	0	0	1	1	1	1	0	0	0	7
- ROTATEES	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
- TT IN	0	0	2	2	1	1	1	2	1	1	2	0	0	0	1	1	0	151
NEW SUPPLY	0	1	10	10	10	10	10	10	10	10	10	8	8	8	11	11	11	151
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	0	0	0	0	0	0	0	0	2	2	2	-1	-1	-1	0

LEVEL 5	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INIT. SUPPLY	0	3	32	32	32	33	31	30	29	27	29	30	30	28	31	31	32	37
- SEPS	0	0	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	13
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0
- UPG OUT	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	4
- UPG IN	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	12
- LEVY OUT	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0
- ROTATEES	0	0	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	6
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	8
NEW SUPPLY	0	3	33	33	32	32	31	29	28	26	28	29	28	26	31	32	32	39
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	-1	-1	0	0	1	3	4	6	4	3	4	6	1	0	0	-7
																		23

FIGURE 10 (continued)

LEVEL 7		0	3	38	38	38	38	38	38	36	37	36	36	36	37	37	37	37	38	40	563
INIT. SUPPLY		0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0	1
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
- ROTATEES		0	0	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	6
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
NEW SUPPLY		0	3	38	38	38	38	38	37	35	36	35	35	36	37	38	36	38	38	42	561
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND		0	0	0	0	-1	0	0	1	3	2	3	3	2	1	0	2	0	-4	12	

LEVEL 9		0	0	5	6	6	6	6	6	7	6	5	7	5	6	5	6	6	6	6	88
INIT. SUPPLY		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3
- ROTATEES		0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
NEW SUPPLY		0	0	5	6	6	6	6	6	7	6	6	6	7	6	5	4	6	6	7	87
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND		0	0	1	0	0	0	0	0	-1	0	0	-1	2	1	2	0	0	-1	3	

FIGURE 10 (continued)

PERIOD 12 ACTUAL SUPPLIES FOR SKILL 6																			
	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	10	8	8	8	11	11	11	13	151
- SEPS	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	17
- UPG OUT	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	4
- LEVY OUT	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	4
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4
+ TT IN	0	0	2	3	3	3	3	1	2	1	1	0	0	0	1	1	1	2	21
NEW SUPPLY	0	1	10	10	10	10	10	10	10	10	10	7	7	7	11	12	12	14	151
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	0	0	0	0	0	0	0	0	0	0	3	3	3	-1	-2	-2	-4	0
LEVEL 5																			
INIT. SUPPLY	0	3	33	33	32	32	31	29	28	26	28	29	28	26	31	32	32	39	460
- SEPS	0	0	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	17
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	5
- UPG OUT	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	6
+ UPG IN	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	17
- LEVY OUT	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	11
+ ROTATEES	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	3	11
NEW SUPPLY	0	3	33	32	30	29	27	26	25	27	28	32	32	32	32	33	33	43	454
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	0	-1	0	2	3	5	6	7	7	5	4	5	7	-1	-1	-1	-1	29

FIGURE 10 (continued)

LEVEL 7		0	3	38	38	39	38	37	35	36	35	35	36	37	38	36	36	42	561
INIT. SUPPLY		0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	9
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
• UPG IN		0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	6
- LEVY OUT		0	0	0	1	1	1	1	1	0	0	0	0	1	0	0	0	0	7
• ROTATEES		0	0	1	2	2	2	1	1	0	0	0	0	0	0	0	0	0	9
• LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	2	7
-----		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NLW SUPPLY		0	3	39	39	39	38	36	34	35	35	35	35	36	38	37	38	41	558
- AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
-----		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND		0	0	-1	-1	0	0	2	4	3	3	3	3	2	0	1	0	-3	15
-----		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LEVEL 9		0	0	5	6	6	6	6	7	6	6	7	4	5	4	6	6	7	87
INIT. SUPPLY		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
• UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
-----		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NLW SUPPLY		0	0	4	5	5	5	6	7	6	6	7	4	5	5	6	6	8	84
- AUTHORIZED		0	0	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
-----		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEMAND		0	0	2	1	1	0	0	-1	0	0	-1	2	1	1	0	0	-2	4
-----		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

FIGURE 11: S1 Promotions and Separations for Skill 6

• • • SCENARIO 11 - "STEADY STATE" • • •

SKILL 6 HOLES AND SEPARATIONS

PERIOD	LEVEL 3 SEPS HOLES		LEVEL 5 SEPS HOLES		LEVEL 7 SEPS HOLES		LEVEL 9 SEPS HOLES	
1	1	6	4	5	2	2	1	1
2	1	6	4	5	2	2	1	1
3	1	2	2	1	1	0	0	0
4	0	0	0	0	0	0	0	0
5	1	2	2	1	1	0	0	0
6	1	5	4	4	2	1	1	0
7	1	5	4	4	1	1	1	0
8	2	11	9	9	3	3	1	1
9	5	22	17	17	7	6	3	2
10	2	10	8	8	3	3	1	1
11	3	15	13	12	5	4	2	1
12	4	21	17	17	7	6	3	2
13	1	6	4	7	2	2	1	1
14	1	6	4	7	2	2	1	1
15	0	3	2	4	1	1	0	0
16	0	0	0	0	0	0	0	0
17	0	2	2	3	1	1	0	0
18	1	6	4	7	2	2	1	1
19	1	5	4	6	2	1	1	0
20	2	10	9	13	3	3	1	1
21	4	21	17	27	7	7	3	2
22	2	10	8	13	3	3	1	1
23	3	15	13	19	5	4	2	1
24	4	21	17	26	7	6	3	2
25	1	6	4	5	2	2	1	1
26	1	6	4	5	2	2	1	1
27	0	2	2	2	1	1	0	0
28	0	0	0	0	0	0	0	0
29	0	2	2	2	1	1	0	0
30	1	6	4	5	2	2	1	1
31	1	5	4	4	2	1	1	0
32	1	11	8	10	4	4	1	1
33	3	21	17	18	7	7	3	2
34	1	10	8	9	4	4	1	1
35	2	15	12	13	6	5	2	1
36	3	21	17	18	7	7	3	2
37	1	6	4	5	2	2	1	1
38	1	6	4	5	2	2	1	1
39	0	2	2	2	1	1	0	0
40	0	0	0	0	0	0	0	0
41	0	2	2	2	1	1	0	0
42	1	6	4	5	2	2	1	1

FIGURE 11 (continued)

PERIOD	LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9	
	SEPS	HOLES	SEPS	HOLES	SEPS	HOLES	SEPS	HOLES
43	1	5	4	4	2	1	1	0
44	1	10	9	9	4	4	2	1
45	3	22	17	19	7	8	3	2
46	1	10	9	9	4	4	1	1
47	2	16	13	14	6	6	2	2
48	3	20	17	17	7	7	3	2
49	1	6	4	5	2	2	1	1
50	1	6	4	5	2	2	1	1
51	0	2	2	2	1	1	0	0
52	0	0	0	0	0	0	0	0
53	0	2	2	2	1	1	0	0
54	1	6	4	5	2	2	1	1
55	1	5	3	4	2	1	1	0
56	1	10	7	9	4	4	1	1
57	3	21	14	18	7	8	3	2
58	1	10	7	9	4	4	1	1
59	2	16	11	14	6	6	2	2
60	3	21	14	18	7	8	3	2
61	1	7	4	6	2	3	1	1

FIGURE 12: S1 Projections and Supplies for Period 48

• • • SCENARIO S1 - "STEADY STATE" • • •

PERIOD 48 PROJECTIONS FOR SKILL 6

LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL	RP00L
INIT. SUPPLY		0	3	35	35	35	34	32	31	32	32	30	31	31	10	10	10	10	401	
- SEPS		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	
- UPG OUT		0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	17	
TOS STATUS		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NEW SUPPLY		0	3	24	25	25	26	24	24	24	23	23	23	23	23	23	23	23	378	52
AUTHORIZED		0	3	32	32	32	32	31	30	31	31	29	30	30	30	9	8	9	9	
DEMAND		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151	
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		0	-2	-22	-22	-22	-22	-21	-20	-21	-21	-19	-20	-20	1	2	1	1	-227	

LEVEL 5		0	6	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	706
INIT. SUPPLY		0	0	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	17
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	7	
- ROTATEES		0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	7	
- UPG OUT		0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	17	
- UPG IN		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
TOS STATUS		0	4	44	47	45	44	46	46	45	45	45	46	46	46	46	46	46	492	95
NEW SUPPLY		0	6	51	51	51	51	51	51	51	51	51	52	52	52	31	30	30	30	
AUTHORIZED		0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483	
DEMAND		0	-3	-19	-19	-19	-19	-19	-19	-19	-19	-19	-20	-20	0	1	2	2	-209	

LEVEL 7		0	3	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	558
INIT. SUPPLY		0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	7
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8	
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
- UPG OUT		0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	7	
- UPG IN		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
TOS STATUS		0	1	29	29	30	32	29	29	30	30	30	30	30	30	30	30	30	340	14
NEW SUPPLY		0	3	37	37	37	37	36	36	37	37	37	37	37	36	35	35	34	540	
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573	
DEMAND		0	0	1	1	1	1	2	2	1	1	1	1	1	2	3	3	4	25	

FIGURE 12 (continued)

PERIOD 48 PROJECTIONS FOR SKILL 6																			
LEVEL 9	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	0	0	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	101
- SEPS	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
+ UPG IN	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
TOS STATUS	0	0	0	6	6	6	7	7	7	7	7	7	6	6	-	-	-	-	-
NEW SUPPLY	0	0	6	6	6	6	7	7	7	7	8	8	7	7	6	6	6	6	100
AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	0	0	0	0	-1	-1	-1	-1	-2	-2	-1	-1	0	0	0	0	-10
LEVEL 3																			
INIT. SUPPLY	0	3	32	32	32	32	32	31	30	31	31	29	30	30	9	8	9	9	378
OVS VLNRLTY	0	0.00	0.08	0.09	0.08	0.09	0.10	0.08	0.09	0.10	0.07	0.08	0.08	0.08	-	-	-	-	1.0
- LEVY OUT	0	0	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	5
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	5
TOS STATUS	0	3	24	25	25	26	24	24	24	24	23	23	23	23	-	-	-	-	-
NEW SUPPLY	0	3	32	31	32	31	30	30	30	30	29	29	30	30	10	10	10	10	378
AUTHORIZED	0	3	29	29	29	29	29	29	29	29	29	29	29	29	10	10	10	10	362
DEMAND	0	0	-3	-2	-3	-2	-2	-1	-1	-1	-1	0	-1	-1	0	0	0	0	-16
LEVEL 5																			
INIT. SUPPLY	0	6	51	51	51	51	51	51	51	51	51	51	52	52	32	31	30	30	692
OVS VLNRLTY	0	0.01	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.09	0.09	0.09	-	-	-	1.0
- LEVY OUT	0	0	0	1	0	0	0	0	0	1	0	1	1	1	0	0	0	0	5
+ ROTATEES	0	0	1	2	1	1	1	1	1	2	1	2	1	1	0	0	0	0	14
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	5
TOS STATUS	0	4	45	49	46	45	47	47	47	47	46	47	47	47	-	-	-	-	-
NEW SUPPLY	0	6	52	52	52	52	52	52	52	52	52	52	52	52	32	32	32	32	706
AUTHORIZED	0	5	52	52	52	52	52	52	52	52	52	52	52	52	32	32	32	32	705
DEMAND	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1

FIGURE 12 (continued)

[illegible]

FIGURE 12 (continued)

PERIOD 48 ACTUAL SUPPLIES FOR SKILL 4																			
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	2	10	10	10	10	10	10	10	8	3	2	2	2	3	6	8	9	105
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
- UPG OUT	0	0	2	2	2	2	2	2	2	1	0	0	0	0	0	1	1	2	17
- LEVY OUT	0	0	0	1	0	1	1	1	0	1	1	0	0	0	0	0	0	0	5
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	5
- TT IN	0	0	3	4	3	3	3	3	2	3	0	0	0	0	0	0	0	0	21
NEW SUPPLY	0	2	10	10	10	10	10	10	10	9	2	2	2	2	4	7	7	8	105
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	151
DEMAND	0	-1	0	0	0	0	0	0	0	1	8	8	8	8	6	3	3	2	46

LEVEL 5	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	4	54	45	37	30	23	15	6	2	0	0	0	0	34	35	37	108	430
- SEPS	0	0	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	14
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
- UPG OUT	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	7
- LEVY IN	0	0	2	2	2	2	2	2	1	0	0	0	0	0	0	1	1	2	17
- LEVY OUT	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
- ROTATEES	0	0	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	5
- TT IN	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
NEW SUPPLY	0	4	54	45	37	30	23	15	5	1	0	0	0	0	33	34	37	108	429
AUTHORIZED	0	3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483
DEMAND	0	-1	-22	-13	-5	-1	9	17	27	31	32	32	32	32	-1	-2	-5	-76	54

FIGURE 12 (continued)

LEVEL 7	3	47	45	37	2°	26	26	27	32	30	25	11	45	44	46	51	524
INITIAL SUPPLY	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7
- SEPS	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8
- ROTATEFS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2
+ UPG OUT	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	2	7
+ UPG IN	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	8
- LEVY OUT	0	0	0	1	1	1	0	1	1	1	1	1	0	0	0	0	8
+ ROTATEFS	0	0	0	1	1	2	1	1	1	1	0	0	0	0	0	0	8
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	8
NEW SUPPLY	0	3	46	37	28	26	26	26	32	30	24	10	45	45	47	52	522
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573
DEMAND	0	0	-8	-7	1	10	12	12	6	8	14	28	-7	-7	-9	-14	51

LEVEL 9																			
INIT. SUPPLY	0	0	1	3	3	3	0	0	3	0	0	4	4	4	4	6	12	38	81
- SEPS	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
+ UPG IN	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
NEW SUPPLY	0	0	1	2	2	3	0	0	3	0	0	4	4	4	4	6	12	39	80
AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
DEMAND	0	0	5	4	4	3	6	6	3	6	6	2	2	2	2	0	6	33	10

FIGURE 13: Details of Base Closure Assignment Scenario

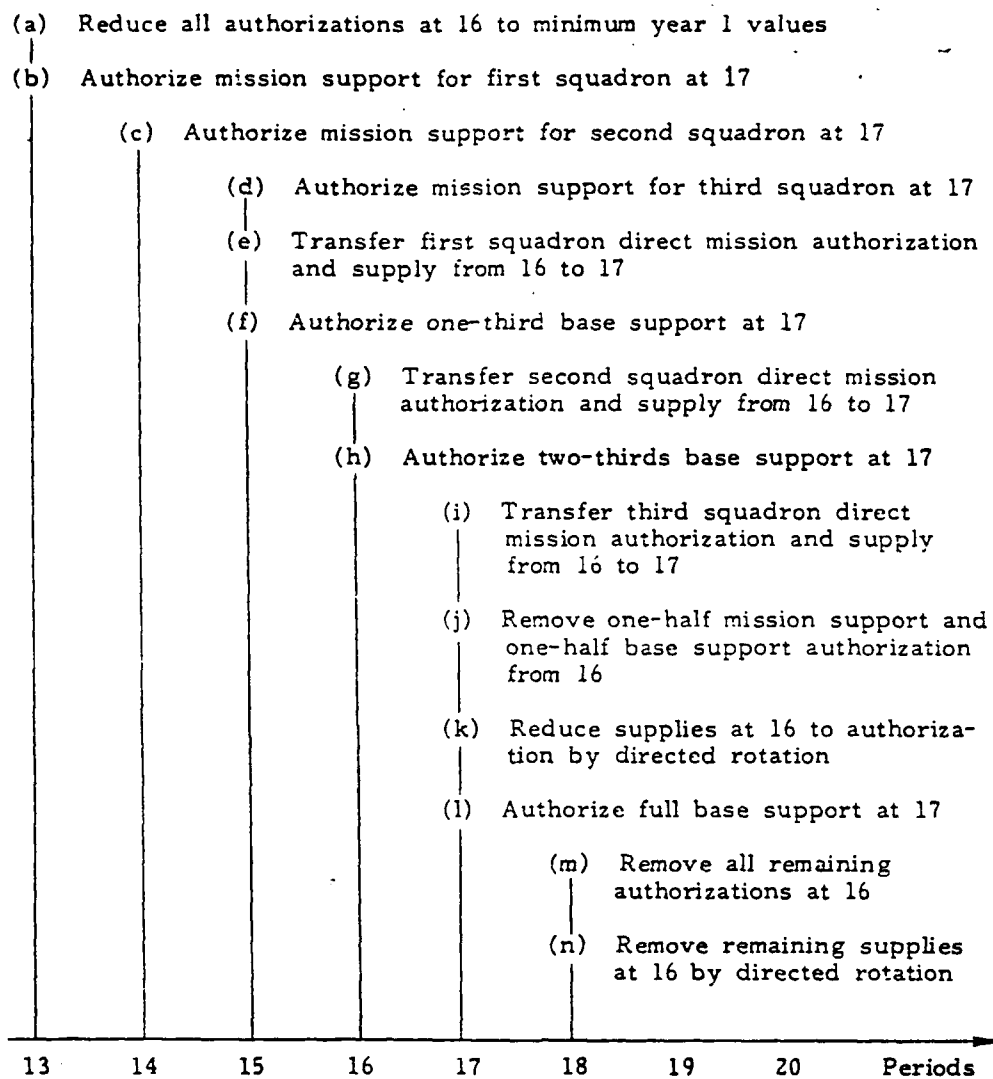


FIGURE 14: S2 Aggregate Results for Year 2

• • • SCENARIO S2 - "STEADY STATE" • • •

YEAR 2: AGGREGATE RESULTS

	LEVEL 1 CHNG	LEVEL 1 POP	LEVEL 3 CHNG	LEVEL 3 POP	LEVEL 5 CHNG	LEVEL 5 POP	LEVEL 7 CHNG	LEVEL 7 POP	LEVEL 9 CHNG	LEVEL 9 POP	TOTAL CHNG	TOTAL POP
SKILL 1												
ENTERING	-	0	-	6	-	22	-	30	-	12	-	70
- SEPS	0	0	1	5	3	19	1	29	0	12	5	65
(EXP)	0	0	1	5	3	19	1	29	0	12	5	65
- UPG OUT	4	-4	5	0	1	18	1	28	0	12	11	54
+ UPG IN	4	0	4	4	5	23	1	29	1	13	15	69
NET RESULT	0	0	-2	4	1	23	-1	29	1	13	-1	69
AUTHORIZED	0	0	6	6	22	22	31	12	12	12	71	71
SKILL 2												
ENTERING	-	0	-	11	-	21	-	48	-	12	-	92
- SEPS	0	0	1	10	3	18	2	46	0	12	6	86
(EXP)	0	0	1	10	3	18	2	46	0	12	6	86
- UPG OUT	8	-8	10	0	1	17	1	45	0	12	20	66
+ UPG IN	8	0	8	8	10	27	1	46	1	13	28	94
NET RESULT	0	0	-3	8	6	27	-2	46	1	13	2	94
AUTHORIZED	0	0	12	12	21	21	49	12	12	12	94	94
SKILL 3												
ENTERING	-	0	-	14	-	59	-	156	-	28	-	257
- SEPS	0	0	2	12	11	48	9	147	4	24	26	231
(EXP)	0	0	2	12	11	48	9	147	4	24	26	231
- UPG OUT	10	-10	12	0	3	45	2	145	0	24	27	204
+ UPG IN	10	0	10	10	12	57	3	148	2	26	37	241
NET RESULT	0	0	-4	10	-2	57	-8	148	-2	26	-16	241
AUTHORIZED	0	0	14	14	67	67	165	28	28	28	274	274

FIGURE 14 (continued)

SKILL 4											
ENTERING	-	0	-	354	-	611	-	549	-	89	- 1603
- SEPS	0	0	46	308	116	495	35	514	14	75	211 1392
(EXP)	0	0	46	308	116	495	35	514	14	75	211 1392
- UPG OUT	246	-246	308	0	33	462	8	506	0	75	595 797
+ UPG IN	246	0	246	246	308	770	33	539	8	83	841 1638
NET RESULT	0	0	-108	246	159	770	-10	539	-6	83	35 1638
AUTHORIZED	0	0		347		530		549		91	1517
SKILL 5											
ENTERING	-	0	-	19	-	28	-	44	-	2	- 93
- SEPS	0	0	2	17	5	23	2	42	0	2	9 84
(EXP)	0	0	2	17	5	23	2	42	0	2	9 84
- UPG OUT	13	-13	17	0	2	21	1	41	0	2	33 51
+ UPG IN	13	0	13	13	17	38	2	43	1	3	46 97
- XT OUT	0	0	0	13	10	28	0	43	1	2	11 86
NET RESULT	0	0	-6	13	0	28	-1	43	0	2	-7 86
AUTHORIZED	0	0		18		28		43		2	91
SKILL 6											
ENTERING	-	0	-	151	-	455	-	558	-	85	- 1249
- SEPS	0	0	19	132	84	371	35	523	14	71	152 1097
(EXP)	0	0	19	132	84	371	35	523	14	71	152 1097
- UPG OUT	105	-105	132	0	25	346	8	515	0	71	270 827
+ UPG IN	105	0	105	105	132	478	25	540	8	79	375 1202
NET RESULT	0	0	-46	105	23	478	-18	540	-6	79	-47 1202
AUTHORIZED	0	0		141		450		535		84	1210
SKILL 7											
ENTERING	-	0	-	23	-	63	-	92	-	18	- 196
- SEPS	0	0	3	20	11	52	5	87	0	18	19 177
(EXP)	0	0	3	20	11	52	5	87	0	18	19 177
- UPG OUT	16	-16	20	0	3	49	1	86	0	18	40 137
+ UPG IN	16	0	16	16	20	69	3	89	1	19	56 193
NET RESULT	0	0	-7	16	6	69	-3	89	1	19	-3 193
AUTHORIZED	0	0		23		66		93		16	198

FIGURE 14 (continued)

SKILL 8											
ENTERING	-	0	-	63	-	152	-	197	-	31	-
- SEPS	0	0	8	55	28	124	11	186	4	27	51
(EXP)	0	0	8	55	28	124	11	186	4	27	51
- UPG OUT	44	-44	55	0	8	116	3	183	0	27	110
+ UPG IN	44	0	44	44	55	171	8	191	3	30	154
NET RESULT	0	0	-19	44	19	171	-6	191	-1	30	-7
AUTHORIZED	0	0	62	148	148	148	148	148	31	31	439
SKILL 9											
ENTERING	-	0	-	32	-	136	-	149	-	22	-
- SEPS	0	0	4	28	25	111	9	140	2	20	40
(EXP)	0	0	4	28	25	111	9	140	2	20	40
- UPG OUT	22	-22	28	0	7	104	2	138	0	20	59
+ UPG IN	22	0	22	22	28	132	7	145	2	22	81
NET RESULT	0	0	-10	22	-4	132	-4	145	0	22	-18
AUTHORIZED	0	0	31	151	151	151	151	151	19	19	349
SKILL 10											
ENTERING	-	0	-	67	-	525	-	548	-	45	-
- SEPS	0	0	9	58	97	428	35	513	7	38	148
(EXP)	0	0	9	58	97	428	35	513	7	38	148
- UPG OUT	47	-47	58	0	29	399	8	505	0	38	142
+ UPG IN	47	0	47	47	58	457	29	534	8	46	189
+ TT IN	0	0	0	47	1	458	0	534	0	46	1
NET RESULT	0	0	-20	47	-67	458	-14	534	1	46	-100
AUTHORIZED	0	0	64	623	623	623	623	623	40	40	1267
SKILL 11											
ENTERING	-	0	-	0	-	12	-	30	-	1	-
- SEPS	0	0	0	0	1	11	1	29	0	1	2
(EXP)	0	0	0	0	1	11	1	29	0	1	2
- UPG OUT	0	0	0	0	1	10	1	28	0	1	2
+ UPG IN	0	0	0	0	0	10	1	29	1	2	2
NET RESULT	0	0	0	0	-2	10	-1	29	1	2	-2
AUTHORIZED	0	0	0	0	15	15	29	29	0	0	44

FIGURE 14 (continued)

SKILL 12												
ENTERING	-	0	-	31	-	179	-	210	-	18	-	438
- SEPS	0	0	4	27	32	147	12	198	1	17	49	389
(EXP)	0	0	4	27	32	147	12	198	1	17	49	389
- UPG OUT	21	-21	27	0	10	137	3	195	0	17	61	328
+ UPG IN	21	0	21	21	27	164	10	205	3	20	82	410
NET RESULT	0	0	-10	21	-15	164	-5	205	2	20	-28	410
AUTHORIZED	0	0	28	28	198	198			14			438

SKILL 13												
ENTERING	-	0	-	76	-	379	-	390	-	56	-	901
- SEPS	0	0	10	66	70	309	24	366	8	48	112	789
(EXP)	0	0	10	66	70	309	24	366	8	48	112	789
- UPG OUT	53	-53	66	0	21	288	6	340	0	48	146	643
+ UPG IN	53	0	53	53	66	354	21	381	6	54	199	842
+ TT IN	0	0	0	53	1	355	0	381	0	54	1	843
NET RESULT	0	0	-23	53	-24	355	-9	381	-2	54	-58	843
AUTHORIZED	0	0	71	71	410	410		368	56			905

SKILL 14												
ENTERING	-	0	-	16	-	54	-	51	-	1	-	122
- SEPS	0	0	2	14	10	44	2	49	0	1	14	108
(EXP)	0	0	2	14	10	44	2	49	0	1	14	108
- UPG OUT	11	-11	14	0	3	41	1	48	0	1	29	79
+ UPG IN	11	0	11	11	14	55	3	51	1	2	40	119
- XT OUT	0	0	0	11	0	55	4	47	2	0	6	113
NET RESULT	0	0	-5	11	1	55	-4	47	-1	0	-9	113
AUTHORIZED	0	0	15	15	55	55		47	0			117

SKILL 15												
ENTERING	-	0	-	9	-	118	-	163	-	23	-	313
- SEPS	0	0	1	8	21	97	9	154	2	21	33	280
(EXP)	0	0	1	8	21	97	9	154	2	21	33	280
- UPG OUT	6	-6	8	0	6	91	3	151	0	21	23	257
+ UPG IN	6	0	6	6	8	99	6	157	3	24	29	286
NET RESULT	0	0	-3	6	-19	99	-6	157	1	24	-27	286
AUTHORIZED	0	0	9	9	147	147		163	20			339

FIGURE 14 (continued)

SKILL 16											
ENTERING	-	0	-	37	-	187	-	199	-	23	-
- SEPS	0	0	5	32	37	150	11	188	2	21	55
(EXP)	0	0	5	32	37	150	11	188	2	21	55
- UPG OUT	26	-26	32	0	10	140	3	185	0	21	71
+ UPG IN	26	0	26	26	32	172	10	195	3	24	97
NET RESULT	0	0	-11	26	-15	172	-4	195	1	24	-29
AUTHORIZED	0	0		37		213		196		20	
											466
SKILL 17											
ENTERING	-	0	-	6	-	24	-	16	-	0	-
- SEPS	0	0	1	5	3	21	0	16	0	0	4
(EXP)	0	0	1	5	3	21	0	16	0	0	4
- UPG OUT	4	-4	5	0	1	20	0	16	0	0	10
+ UPG IN	4	0	4	4	5	25	1	17	0	0	14
NET RESULT	0	0	-2	4	1	25	1	17	0	0	0
AUTHORIZED	0	0		6		25		16		0	
											47
SKILL 18											
ENTERING	-	0	-	9	-	62	-	55	-	1	-
- SEPS	0	0	1	8	12	50	3	52	0	1	16
(EXP)	0	0	1	8	12	50	3	52	0	1	16
- UPG OUT	6	-6	8	0	3	47	1	51	0	1	18
+ UPG IN	6	0	6	6	8	55	3	54	1	2	24
NET RESULT	0	0	-3	6	-7	55	-1	54	1	2	-10
AUTHORIZED	0	0		9		73		55		0	
											137
SKILL 19											
ENTERING	-	0	-	9	-	36	-	28	-	8	-
- SEPS	0	0	1	8	6	30	1	27	0	8	8
(EXP)	0	0	1	8	6	30	1	27	0	8	8
- UPG OUT	6	-6	8	0	2	28	1	26	0	8	17
+ UPG IN	6	0	6	6	8	36	2	28	1	9	23
NET RESULT	0	0	-3	6	0	36	0	28	1	9	-7
AUTHORIZED	0	0		9		40		27		8	
											84

FIGURE 14 (continued)

SKILL 20												
ENTERING	-	0	-	7	-	106	-	88	-	5	-	206
- SEPS	0	0	1	6	19	87	4	84	0	5	5	182
(EXP)	0	0	1	6	19	87	4	84	0	5	5	182
- UPG OUT	5	-5	6	0	6	81	1	83	0	5	5	164
+ UPG IN	5	0	5	5	6	87	6	89	1	6	6	187
NET RESULT	0	0	-2	5	-19	87	1	89	1	6	-19	187
AUTHORIZED	0	0	7	7	132	132		84		5		228

SKILL 21												
ENTERING	-	0	-	75	-	300	-	188	-	28	-	591
- SEPS	0	0	10	65	54	246	10	178	4	24	78	513
(EXP)	0	0	10	65	54	246	10	178	4	24	78	513
- UPG OUT	52	-52	65	0	16	230	3	175	0	24	136	377
+ UPG IN	52	0	52	52	65	295	16	191	3	27	188	565
NET RESULT	0	0	-23	52	-5	295	3	191	-1	27	-26	565
AUTHORIZED	0	0	75	75	338	338		181		28		622

SKILL 22												
ENTERING	-	0	-	90	-	590	-	625	-	58	-	1363
- SEPS	0	0	12	78	110	480	40	585	9	49	171	1192
(EXP)	0	0	12	78	110	480	40	585	9	49	171	1192
- UPG OUT	63	-63	78	0	32	448	9	576	0	49	182	1010
+ UPG IN	63	0	63	63	78	526	32	608	9	58	245	1255
+ TT IN	0	0	0	63	1	527	0	608	0	58	1	1256
NET RESULT	0	0	-27	63	-63	527	-17	608	0	58	-107	1256
AUTHORIZED	0	0	89	89	707	707		634		59		1489

SKILL 23												
ENTERING	-	0	-	1	-	7	-	9	-	0	-	17
- SEPS	0	0	0	1	1	6	0	9	0	0	1	16
(EXP)	0	0	0	1	1	6	0	9	0	0	1	16
- UPG OUT	1	-1	1	0	0	6	0	9	0	0	2	14
+ UPG IN	1	0	1	1	1	7	0	9	0	0	3	17
NET RESULT	0	0	0	1	0	7	0	9	0	0	0	17
AUTHORIZED	0	0	1	1	7	7		9		0		17

FIGURE 14 (continued)

SKILL 24											
ENTERING	-	0	-	1	-	7	-	11	-	0	19
- SEPS	0	0	0	1	1	6	0	11	0	0	18
(EXP)	0	0	0	1	1	6	0	11	0	0	18
- UPG OUT	1	-1	1	0	0	6	0	11	0	0	16
+ UPG IN	1	0	1	1	1	7	0	11	0	0	19
NET RESULT	0	0	0	1	0	7	0	11	0	0	19
AUTHORIZED	0	0	1	1	0	8	11	11	0	0	20

SKILL 25											
ENTERING	-	0	-	2	-	5	-	12	-	0	19
- UPG OUT	1	-1	2	0	0	5	0	12	0	0	16
+ UPG IN	1	0	1	1	2	7	0	12	0	0	20
- XT OUT	0	0	0	1	2	5	0	12	0	0	18
NET RESULT	0	0	-1	1	0	5	0	12	0	0	18
AUTHORIZED	0	0	2	2	5	5	12	12	0	0	19

SKILL 26											
ENTERING	-	0	-	77	-	357	-	293	-	27	754
- SFPS	0	0	10	67	68	289	17	276	4	23	655
(EXP)	0	0	10	67	68	289	17	276	4	23	655
- UPG OUT	53	-53	67	0	19	270	4	272	0	23	512
+ UPG IN	53	0	53	53	67	337	19	291	4	27	708
NET RESULT	0	0	-24	53	-20	337	-2	291	0	27	708
AUTHORIZED	0	0	75	75	405	405	284	284	24	24	788

SKILL 27											
ENTERING	-	0	-	289	-	1488	-	1104	-	98	2979
- SEPS	0	0	37	252	275	1213	75	1029	15	83	402
(EXP)	0	0	37	252	275	1213	75	1029	15	83	402
- UPG OUT	201	-201	252	0	81	1132	17	1012	0	83	551
+ UPG IN	201	0	201	201	252	1384	81	1093	17	100	752
+ TT IN	0	0	0	201	6	1390	4	1097	2	102	12
NET RESULT	0	0	-88	201	-98	1390	-7	1097	4	102	-189
AUTHORIZED	0	0	290	290	1730	1730	1087	1087	94	94	3201

FIGURE 14 (continued)

SKILL 28											
ENTERING	-	0	-	25	-	137	-	124	-	23	-
- SEPS	0	0	3	22	25	112	8	116	3	20	39
(EXP)	0	0	3	22	25	112	8	116	3	20	39
- UPG OUT	17	-17	22	0	8	104	2	114	0	20	49
+ UPG IN	17	0	17	17	22	126	8	122	2	22	66
NET RESULT	0	0	-8	17	-11	126	-2	122	-1	22	-22
AUTHORIZED	0	0		24		162		122		23	331

SKILL 29											
ENTERING	-	0	-	171	-	1005	-	896	-	160	-
- SEPS	0	0	22	149	187	818	60	836	24	136	293
(EXP)	0	0	22	149	187	818	60	836	24	136	293
- UPG OUT	119	-119	149	0	55	763	13	823	0	136	336
+ UPG IN	119	0	119	119	149	912	55	878	13	149	455
+ TT IN	0	0	0	119	3	915	0	878	1	150	4
NET RESULT	0	0	-52	119	-90	915	-18	878	-10	150	-170
AUTHORIZED	0	0		171		1192		899		167	2429

SKILL 30											
ENTERING	-	0	-	57	-	296	-	250	-	4	-
- SEPS	0	0	7	50	54	247	14	236	0	4	75
(EXP)	0	0	7	50	54	247	14	236	0	4	75
- UPG OUT	40	-40	50	0	16	226	4	232	0	4	110
+ UPG IN	40	0	40	40	50	276	16	248	4	8	150
NET RESULT	0	0	-17	40	-20	276	-2	248	4	8	-35
AUTHORIZED	0	0		58		344		246		0	648

SKILL 31											
ENTERING	-	0	-	3	-	19	-	25	-	36	-
- SEPS	0	0	0	3	3	16	1	24	4	32	8
(EXP)	0	0	0	3	3	16	1	24	4	32	8
- UPG OUT	2	-2	3	0	1	15	0	24	0	32	6
+ UPG IN	2	0	2	2	3	18	1	25	0	32	8
NET RESULT	0	0	-1	2	-1	18	0	25	-4	32	-6
AUTHORIZED	0	0		3		21		25		40	89

FIGURE 14 (continued)

SKILL 32												
ENTERING	-	0	-	120	-	404	-	263	-	34	-	821
- SEPS	0	0	15	105	76	328	14	249	5	29	110	711
(EXP)	0	0	15	105	76	328	14	249	5	29	110	711
- UPG OUT	83	-83	105	0	22	306	4	245	0	29	214	497
+ UPG IN	83	0	83	83	105	411	22	267	4	33	297	794
NET RESULT	0	0	-37	83	7	411	4	267	-1	33	-27	794
AUTHORIZED	0	0		117		439		263		33		842

SKILL 33												
ENTERING	-	0	-	194	-	987	-	538	-	92	-	1811
- SEPS	0	0	25	169	185	802	33	505	14	78	257	1554
(EXP)	0	0	25	169	185	802	33	505	14	78	257	1554
- UPG OUT	135	-135	169	0	54	748	8	497	0	78	366	1188
+ UPG IN	135	0	135	135	169	917	54	551	8	86	501	1689
NET RESULT	0	0	-59	135	-70	917	13	551	-6	86	-122	1689
AUTHORIZED	0	0		195		1151		508		98		1952

SKILL 34												
ENTERING	-	0	-	65	-	217	-	226	-	25	-	533
- SEPS	0	0	8	57	41	176	14	212	3	22	66	467
(EXP)	0	0	8	57	41	176	14	212	3	22	66	467
- UPG OUT	45	-45	57	0	12	164	3	204	0	22	117	350
+ UPG IN	45	0	45	45	57	221	12	221	3	25	162	512
NET RESULT	0	0	-20	45	4	221	-5	221	0	25	-21	512
AUTHORIZED	0	0		64		234		223		23		544

SKILL 35												
ENTERING	-	0	-	51	-	164	-	319	-	51	-	585
- SEPS	0	0	7	44	31	133	18	301	8	43	64	521
(EXP)	0	0	7	44	31	133	18	301	8	43	64	521
- UPG OUT	35	-35	44	0	9	124	5	296	0	43	93	428
+ UPG IN	35	0	35	35	44	168	9	305	5	48	128	556
NET RESULT	0	0	-16	35	4	168	-14	305	-3	48	-29	556
AUTHORIZED	0	0		50		172		326		55		603

FIGURE 14 (continued)

SKILL 36											
ENTERING	-	0	-	77	-	322	-	247	-	23	- 669
- SEPS	0	0	10	67	59	263	14	234	2	21	85 584
(EXP)	0	0	10	67	59	263	14	234	2	21	85 584
- UPG OUT	53	-53	67	0	18	245	4	229	0	21	142 442
+ UPG IN	53	0	53	53	67	312	18	247	4	25	195 637
NET RESULT	0	0	-24	53	-10	312	0	247	2	25	-32 637
AUTHORIZED	0	0		77		366		240		20	703

SKILL 37											
ENTERING	-	0	-	159	-	547	-	430	-	39	- 1175
- SEPS	0	0	21	138	100	447	26	404	5	34	152 1023
(EXP)	0	0	21	138	100	447	26	404	5	34	152 1023
- UPG OUT	110	-110	138	0	30	417	7	397	0	34	285 738
+ UPG IN	110	0	110	110	138	555	30	427	7	41	395 1133
NET RESULT	0	0	-49	110	8	555	-3	427	2	41	-42 1133
AUTHORIZED	0	0		157		590		419		35	1201

SKILL 38											
ENTERING	-	0	-	184	-	486	-	467	-	58	- 1195
- SEPS	0	0	24	160	91	395	28	439	9	49	152 1043
(EXP)	0	0	24	160	91	395	28	439	9	49	152 1043
- UPG OUT	128	-128	160	0	26	369	7	432	0	49	321 722
+ UPG IN	128	0	128	128	160	529	26	458	7	56	449 1171
NET RESULT	0	0	-56	128	43	529	-9	458	-2	56	-24 1171
AUTHORIZED	0	0		181		493		467		60	1201

SKILL 39											
ENTERING	-	0	-	92	-	312	-	178	-	15	- 597
- SEPS	0	0	12	80	58	254	9	169	0	15	79 518
(EXP)	0	0	12	80	58	254	9	169	0	15	79 518
- UPG OUT	64	-64	80	0	17	237	3	166	0	15	164 354
+ UPG IN	64	0	64	64	80	317	17	183	3	18	228 582
NET RESULT	0	0	-28	64	5	317	5	183	3	18	-15 582
AUTHORIZED	0	0		90		335		167		13	605

FIGURE 14 (continued)

SKILL 40												
ENTERING	-	0	-	214	-	853	-	560	-	37	-	1664
- SEPS	0	0	28	186	161	692	35	525	6	31	230	1434
(EXP)	0	0	28	186	161	692	35	525	6	31	230	1434
- UPG OUT	149	-149	186	0	46	646	8	517	0	31	389	1045
+ UPG IN	149	0	149	149	186	832	46	563	8	39	538	1583
NET RESULT	0	0	-65	149	-21	832	3	563	2	39	-81	1583
AUTHORIZED	0	0	210	210	952			537		31		1730

SKILL 41												
ENTERING	-	0	-	55	-	278	-	230	-	14	-	577
- SEPS	0	0	7	48	51	227	14	216	0	14	72	505
(EXP)	0	0	7	48	51	227	14	216	0	14	72	505
- UPG OUT	38	-38	48	0	15	212	4	212	0	14	105	400
+ UPG IN	38	0	38	38	48	260	15	227	4	18	143	543
NET RESULT	0	0	-17	38	-18	260	-3	227	4	18	-34	543
AUTHORIZED	0	0	53	53	317			222		11		603

SKILL 42												
ENTERING	-	0	-	66	-	357	-	246	-	27	-	696
- SEPS	0	0	9	57	67	290	14	232	4	23	94	602
(EXP)	0	0	9	57	67	290	14	232	4	23	94	602
- UPG OUT	46	-46	57	0	19	271	4	228	0	23	126	476
+ UPG IN	46	0	46	46	57	328	19	247	4	27	172	648
NET RESULT	0	0	-20	46	-29	328	1	247	0	27	-48	648
AUTHORIZED	0	0	65	65	411			233		25		734

SKILL 43												
ENTERING	-	0	-	346	-	1230	-	1244	-	130	-	3000
- SEPS	0	0	45	301	230	1000	88	1206	20	110	303	2617
(EXP)	0	0	45	301	230	1000	88	1206	20	110	303	2617
- UPG OUT	240	-240	301	0	67	933	19	1187	0	110	627	1990
+ UPG IN	240	0	240	240	301	1234	67	1254	19	129	867	2857
NET RESULT	0	0	-106	240	4	1234	-40	1254	-1	129	-143	2857
AUTHORIZED	0	0	342	342	1340			1300		125		3107

FIGURE 14 (continued)

SKILL 44												
ENTERING	-	0	-	2	-	34	-	89	-	6	-	131
- SEPS	0	0	0	2	6	28	5	84	0	6	11	120
(EXP)	0	0	0	2	6	28	5	84	0	6	11	120
- UPG OUT	1	-1	2	0	2	26	1	83	0	6	6	114
+ UPG IN	1	0	1	1	2	28	2	85	1	7	7	121
NET RESULT	0	0	-1	1	-6	28	-4	85	1	7	-10	121
AUTHORIZED	0	0	2	2	43			91	6			142
SKILL 45												
ENTERING	-	0	-	74	-	209	-	218	-	31	-	532
- SEPS	0	0	10	64	42	167	12	206	4	27	68	464
(EXP)	0	0	10	64	42	167	12	206	4	27	68	464
- UPG OUT	51	-51	64	0	11	156	3	203	0	77	129	315
+ UPG IN	51	0	51	51	64	220	11	214	3	30	180	515
NET RESULT	0	0	-23	51	11	220	-4	214	-1	30	-17	515
AUTHORIZED	0	0	72	72	220			215	30			537
SKILL 46												
ENTERING	-	0	-	430	-	1436	-	1405	-	143	-	3414
- SEPS	0	0	55	375	269	1167	97	1308	21	122	442	2972
(EXP)	0	0	55	375	269	1167	97	1308	21	122	442	2972
- UPG OUT	298	-298	375	0	78	1089	21	1287	0	122	772	2200
+ UPG IN	298	0	298	298	375	1464	78	1365	21	143	1070	3270
NET RESULT	0	0	-132	298	28	1464	-40	1365	0	143	-144	3270
AUTHORIZED	0	0	424	424	1545			1404	140			3513
SKILL 47												
ENTERING	-	0	-	130	-	453	-	742	-	193	-	1518
- SEPS	0	0	17	113	85	368	52	690	29	164	183	1335
(EXP)	0	0	17	113	85	368	52	690	29	164	183	1335
- UPG OUT	90	-90	113	0	25	343	11	679	0	164	239	1096
+ UPG IN	90	0	90	90	113	456	25	704	11	175	329	1425
NET RESULT	0	0	-40	90	3	456	-38	704	-18	175	-93	1425
AUTHORIZED	0	0	128	128	493			764	207			1592

FIGURE 14 (continued)

SKILL 48											
ENTERING	-	0	-	55	-	62	-	269	-	34	-
- SEPS	0	0	7	48	13	49	17	252	5	29	42
(EXP)	0	0	7	48	13	49	17	252	5	29	42
- UPG OUT	38	-38	48	0	3	46	4	248	0	29	93
+ UPG IN	38	0	38	38	48	94	3	251	4	33	131
NET RESULT	0	0	-17	38	32	94	-18	251	-1	33	-4
AUTHORIZED	0	0		54		42		282		32	
SKILL 49											
ENTERING	-	0	-	465	-	1816	-	787	-	66	-
- SEPS	0	0	60	405	339	1477	53	734	10	56	462
(EXP)	0	0	60	405	339	1477	53	734	10	56	462
- UPG OUT	323	-323	405	0	99	1378	12	722	0	56	839
+ UPG IN	323	0	323	323	405	1783	99	821	12	68	1162
NET RESULT	0	0	-142	323	-33	1783	34	821	2	68	-139
AUTHORIZED	0	0		458		2014		716		63	
SKILL 50											
ENTERING	-	0	-	347	-	1259	-	847	-	105	-
- SEPS	0	0	45	302	234	1025	58	789	17	88	354
(EXP)	0	0	45	302	234	1025	58	789	17	88	354
- UPG OUT	241	-241	302	0	68	957	13	776	0	88	624
+ UPG IN	241	0	241	241	302	1259	68	844	13	101	865
NET RESULT	0	0	-106	241	0	1259	-3	844	-4	101	-113
AUTHORIZED	0	0		343		1375		822		104	
SKILL 51											
ENTERING	-	0	-	14	-	53	-	45	-	6	-
- SEPS	0	0	2	12	10	43	2	43	0	6	14
(EXP)	0	0	2	12	10	43	2	43	0	6	14
- UPG OUT	10	-10	12	0	3	40	1	42	0	6	26
+ UPG IN	10	0	10	10	12	52	3	45	1	7	36
NET RESULT	0	0	-4	10	-1	52	0	45	1	7	-4
AUTHORIZED	0	0		14		57		44		5	

FIGURE 14 (continued)

GRAND TOTAL											
ENTERING	-	0	-	4871	-	18919	-	16538	-	2043	- 42371
- SEPS	0	0	629	4242	3520	15399	1039	15499	283	1760	5471 36900
(EXP)	0	0	629	4242	3520	15399	1039	15499	283	1760	5471 36900
- UPG OUT	3381	-3381	4242	0	1027	14372	249	15250	0	1760	8899 28001
+ UPG IN	3381	0	3381	3381	4242	18614	1027	16277	249	2009	12280 40281
- XT OUT	0	0	0	3381	12	18602	4	16273	3	2006	19 40262
+ XT IN	0	0	0	3381	12	18614	4	16277	3	2009	19 40281
NET RESULT	0	0	-1490	3381	-305	18614	-261	16277	-34	2009	-2090 40281
AUTHORIZED	0	0	4794	20922				16277		2009	44002

SKILL 52											
ENTERING	-	0	-	127	-	156	-	48	-	25	- 356
- SEPS	0	0	13	114	5	151	6	42	0	25	24 332
(EXP)	0	0	13	114	5	151	6	42	0	25	24 332
- UPG OUT	40	-40	28	46	11	140	1	41	0	25	80 252
+ UPG IN	40	0	40	126	28	168	11	52	1	26	120 372
NET RESULT	0	0	-1	126	12	168	4	52	1	26	16 372
AUTHORIZED	0	0	126	126				38		24	314

SKILL 53											
ENTERING	-	0	-	66	-	80	-	23	-	17	- 186
- SEPS	0	0	7	59	3	77	2	21	0	17	12 174
(EXP)	0	0	7	59	3	77	2	21	0	17	12 174
- UPG OUT	21	-21	15	44	6	71	0	21	0	17	42 132
+ UPG IN	21	0	21	65	15	86	6	27	0	17	63 195
NET RESULT	0	0	-1	65	6	86	4	27	0	17	9 195
AUTHORIZED	0	0	66	66				18		16	164

FIGURE 14 (continued)

SKILL 54											
ENTERING	-	0	-	52	-	66	-	66	-	33	-
- SFPS	0	0	6	46	2	64	9	57	1	32	18
(EXP)	0	0	6	46	2	64	9	57	1	32	18
- UPG OUT	17	-17	11	35	5	59	2	55	0	32	35
+ UPG IN	17	0	17	52	11	70	5	60	2	34	52
NET RESULT	0	0	0	52	4	70	-6	60	1	34	-1
AUTHORIZED	0	0	53	53	53		74		31		211

SKILL 55											
ENTERING	-	0	-	124	-	153	-	35	-	14	-
- SFPS	0	0	13	111	6	147	3	32	0	14	22
(EXP)	0	0	13	111	6	147	3	32	0	14	22
- UPG OUT	40	-40	28	83	11	136	1	31	0	14	80
+ UPG IN	40	0	40	123	28	164	11	42	1	15	120
NET RESULT	0	0	-1	123	11	164	7	42	1	15	18
AUTHORIZED	0	0	124	124	123		26		13		286

SKILL 56											
ENTERING	-	0	-	24	-	30	-	7	-	3	-
- SFPS	0	0	2	22	0	30	0	7	0	3	2
(EXP)	0	0	2	22	0	30	0	7	0	3	2
- UPG OUT	8	-8	6	16	2	28	0	7	0	3	16
+ UPG IN	8	0	8	24	6	34	2	9	0	3	24
NET RESULT	0	0	0	24	4	34	2	9	0	3	6
AUTHORIZED	0	0	24	24	23		5		3		55

SKILL 57											
ENTERING	-	0	-	40	-	50	-	50	-	24	-
- SFPS	0	0	4	36	0	50	7	43	0	24	11
(EXP)	0	0	4	36	0	50	7	43	0	24	11
- UPG OUT	13	-13	9	27	4	46	1	42	0	24	27
+ UPG IN	13	0	13	40	9	55	4	46	1	25	40
NET RESULT	0	0	0	40	5	55	-4	46	1	25	2
AUTHORIZED	0	0	40	40	40		56		23		159

FIGURE 14 (continued)

SKILL 54											
ENTERING	-	0	-	43	-	53	-	18	-	7	- 121
- SEPS	0	0	4	39	0	53	2	16	0	7	6 115
(EXP)	0	0	4	39	0	53	2	16	0	7	6 115
- UPG OUT	14	-14	10	29	4	49	0	16	0	7	28 87
+ UPG IN	14	0	14	43	10	59	4	20	0	7	42 129
NET RESULT	0	0	0	43	6	59	2	20	0	7	8 129
AUTHORIZED	0	0	0	44		41		15		7	107

SKILL 59											
ENTERING	-	0	-	45	-	55	-	41	-	7	- 148
- SEPS	0	0	5	40	1	54	6	35	0	7	12 136
(EXP)	0	0	5	40	1	54	6	35	0	7	12 136
- UPG OUT	15	-15	10	30	4	50	1	34	0	7	30 106
+ UPG IN	15	0	15	45	10	60	4	38	1	8	45 151
NET RESULT	0	0	0	45	5	60	-3	38	1	8	3 151
AUTHORIZED	0	0	0	45		45		42		6	138

SKILL 60											
ENTERING	-	0	-	32	-	37	-	26	-	5	- 100
- SEPS	0	0	3	29	0	37	3	23	0	5	6 94
(EXP)	0	0	3	29	0	37	3	23	0	5	6 94
- UPG OUT	10	-10	7	22	3	34	1	22	0	5	21 73
+ UPG IN	10	0	10	32	7	41	3	25	1	6	31 104
NET RESULT	0	0	0	32	4	41	-1	25	1	6	4 104
AUTHORIZED	0	0	0	32		28		28		4	92

SKILL 61											
ENTERING	-	0	-	34	-	43	-	12	-	4	- 93
- SEPS	0	0	3	31	0	43	0	12	0	4	3 90
(EXP)	0	0	3	31	0	43	0	12	0	4	3 90
- UPG OUT	11	-11	8	23	3	40	0	12	0	4	22 68
+ UPG IN	11	0	11	34	8	48	3	15	0	4	33 101
NET RESULT	0	0	0	34	5	48	3	15	0	4	8 101
AUTHORIZED	0	0	0	34		34		8		4	40

FIGURE 14 (continued)

SKILL 62											
ENTERING	-	0	-	57	-	70	-	16	-	8	151
- SEPS	0	0	7	50	2	68	1	15	0	8	141
(EXP)	0	0	7	50	2	68	1	15	0	8	141
- UPG OUT	18	-18	12	38	5	63	0	15	0	8	106
+ UPG IN	18	0	18	56	12	75	5	20	0	8	154
NET RESULT	0	0	-1	56	5	75	4	20	0	8	159
AUTHORIZED	0	0	0	57	54			10	8	8	129

SKILL 63											
ENTERING	-	0	-	26	-	32	-	13	-	0	71
- SEPS	0	0	2	24	0	32	1	12	0	0	68
(EXP)	0	0	2	24	0	32	1	12	0	0	68
- UPG OUT	8	-8	6	18	2	30	0	12	0	0	52
+ UPG IN	8	0	8	26	6	36	2	14	0	0	76
NET RESULT	0	0	0	26	4	36	1	14	0	0	76
AUTHORIZED	0	0	0	26	25			10	0	0	61

SKILL 64											
ENTERING	-	0	-	36	-	47	-	13	-	0	96
- SEPS	0	0	3	33	0	47	0	13	0	0	93
(EXP)	0	0	3	33	0	47	0	13	0	0	93
- UPG OUT	12	-12	8	25	3	44	0	13	0	0	70
+ UPG IN	12	0	12	37	8	52	3	16	0	0	105
NET RESULT	0	0	1	37	5	52	3	16	0	0	105
AUTHORIZED	0	0	0	37	36			9	0	0	82

SKILL 65											
ENTERING	-	0	-	9	-	12	-	3	-	0	24
- SEPS	0	0	1	8	0	12	0	3	0	0	23
(EXP)	0	0	1	8	0	12	0	3	0	0	23
- UPG OUT	3	-3	2	6	1	11	0	3	0	0	17
+ UPG IN	3	0	3	9	2	13	1	4	0	0	26
NET RESULT	0	0	0	9	1	13	1	4	0	0	26
AUTHORIZED	0	0	0	9	9			2	0	0	20

FIGURE 14 (continued)

SKILL 66											
ENTERING	-	0	-	30	-	36	-	12	-	3	81
- SEPS	0	0	3	27	0	36	0	12	0	3	78
(EXP)	0	0	3	27	0	36	0	12	0	3	78
- UPG OUT	10	-10	7	20	3	33	0	12	0	3	58
+ UPG IN	10	0	10	30	7	40	3	15	0	3	88
NET RESULT	0	0	0	30	4	40	3	15	0	3	88
AUTHORIZED	0	0	0	30	27			9		3	69
SKILL 67											
ENTERING	-	0	-	17	-	27	-	19	-	3	66
- SEPS	0	0	2	15	0	27	2	17	0	3	62
(EXP)	0	0	2	15	0	27	2	17	0	3	62
- UPG OUT	6	-6	4	11	2	25	1	16	0	3	49
+ UPG IN	6	0	6	17	4	29	2	18	1	4	68
NET RESULT	0	0	0	17	2	29	-1	18	1	4	68
AUTHORIZED	0	0	0	16	24			18		2	60
SKILL 68											
ENTERING	-	0	-	41	-	58	-	23	-	4	126
- SEPS	0	0	4	37	2	56	2	21	0	4	118
(EXP)	0	0	4	37	2	56	2	21	0	4	118
- UPG OUT	13	-13	9	28	4	52	1	20	0	4	91
+ UPG IN	13	0	13	41	9	61	4	24	1	5	131
NET RESULT	0	0	0	41	3	61	1	24	1	5	131
AUTHORIZED	0	0	0	40	49			19		4	112
SKILL 69											
ENTERING	-	0	-	75	-	316	-	197	-	118	706
- SEPS	0	0	8	67	16	300	30	167	6	112	646
(EXP)	0	0	8	67	16	300	30	167	6	112	646
- UPG OUT	24	-24	17	50	30	270	4	163	0	112	571
+ UPG IN	24	0	24	74	17	287	30	193	4	116	670
NET RESULT	0	0	-1	74	-29	287	-4	193	-2	116	670
AUTHORIZED	0	0	0	70	337			183		112	702

FIGURE 14 (continued)

SKILL 70											
ENTERING	-	0	-	1	-	163	-	153	-	95	- 412
- SEPS	0	0	0	1	10	153	23	130	6	89	39 373
(EXP)	0	0	0	1	10	153	23	130	6	89	39 373
- UPG OUT	0	0	0	1	17	136	3	127	0	89	20 353
+ UPG IN	0	0	0	1	0	136	17	144	3	92	20 373
NET RESULT	0	0	0	1	-27	136	-9	144	-3	92	-39 373
AUTHORIZED	0	0	0	2		196		153		91	442
SKILL 71											
ENTERING	-	0	-	0	-	15	-	4	-	1	- 20
- UPG OUT	0	0	0	0	2	13	0	4	0	1	2 18
+ UPG IN	0	0	0	0	0	13	2	6	0	1	2 20
NET RESULT	0	0	0	0	-2	13	2	6	0	1	0 20
AUTHORIZED	0	0	0	0		17		2		1	20
SKILL 72											
ENTERING	-	0	-	177	-	382	-	259	-	195	- 1013
- SEPS	0	0	19	158	19	363	39	220	14	181	91 922
(EXP)	0	0	19	158	19	363	39	220	14	181	91 922
- UPG OUT	57	-57	39	119	32	331	6	214	0	181	134 788
+ UPG IN	57	0	57	176	39	370	32	246	6	187	191 979
NET RESULT	0	0	-1	176	-12	370	-13	246	-8	187	-34 979
AUTHORIZED	0	0	0	177		386		269		200	1032
SKILL 73											
ENTERING	-	0	-	57	-	116	-	77	-	46	- 296
- SEPS	0	0	7	50	4	112	11	66	3	43	25 271
(EXP)	0	0	7	50	4	112	11	66	3	43	25 271
- UPG OUT	18	-18	12	38	10	12	2	64	0	43	42 229
+ UPG IN	18	0	18	56	12	114	10	74	2	45	60 289
NET RESULT	0	0	-1	56	-2	114	-3	74	-1	45	-7 289
AUTHORIZED	0	0	0	57		112		78		43	290

FIGURE 14 (continued)

SKILL 74												
ENTERING	-	0	-	23	-	112	-	65	-	32	-	232
- SEPS	0	0	2	21	5	107	7	58	1	31	15	217
(EXP)	0	0	2	21	5	107	7	58	1	31	15	217
- UPG OUT	7	-7	5	16	11	96	1	67	0	31	24	193
+ UPG IN	7	0	7	23	5	101	11	68	1	32	31	224
NET RESULT	0	0	0	23	-11	101	3	68	0	32	-8	224
AUTHORIZED	0	0	0	22		125		61		29		237

SKILL 75												
ENTERING	-	0	-	51	-	107	-	65	-	63	-	286
- SEPS	0	0	6	45	3	104	8	57	4	59	21	265
(EXP)	0	0	6	45	3	104	8	57	4	59	21	265
- UPG OUT	16	-16	11	34	9	95	1	56	0	59	37	228
+ UPG IN	16	0	16	50	13	106	9	65	1	60	53	281
NET RESULT	0	0	-1	50	-1	106	0	65	-3	60	-5	281
AUTHORIZED	0	0		49		106		64		65		284

SKILL 76												
ENTERING	-	0	-	0	-	14	-	5	-	2	-	21
- UPG OUT	0	0	0	0	1	13	0	5	0	2	1	20
+ UPG IN	0	0	0	0	0	13	1	6	0	2	1	21

NET RESULT	0	0	0	0	-1	13	1	6	0	2	0	21
AUTHORIZED	0	0	0	0		16		4		2		22

SKILL 77												
ENTERING	-	0	-	7	-	47	-	36	-	26	-	116
- SEPS	0	0	1	6	2	45	4	32	0	26	7	109
(EXP)	0	0	1	6	2	45	4	32	0	26	7	109
- UPG OUT	2	-2	2	4	5	40	1	31	0	26	10	99
+ UPG IN	2	0	2	6	2	42	5	36	1	27	12	111

NET RESULT	0	0	-1	6	-5	42	0	36	1	27	-5	111
AUTHORIZED	0	0	0	8		54		33		25		120

FIGURE 14 (continued)

SKILL 74											
ENTERING	-	0	-	26	-	86	-	57	-	50	-
- SEPS	0	0	2	24	3	83	7	50	3	47	15
(EXP)	0	0	2	24	3	83	7	50	3	47	15
- UPG OUT	8	-8	6	18	0	75	1	49	0	47	23
+ UPG IN	8	0	8	26	6	81	8	57	1	48	31
NET RESULT	0	0	0	26	-5	81	0	57	-2	48	-7
AUTHORIZED	0	0	25			92		56		50	
SKILL 79											
ENTERING	-	0	-	0	-	17	-	6	-	2	-
- UPG OUT	0	0	0	0	2	15	0	6	0	2	2
+ UPG IN	0	0	0	0	0	15	2	8	0	2	2
NET RESULT	0	0	0	0	-2	15	2	8	0	2	0
AUTHORIZED	0	0	0	0	19			5		2	
SKILL 80											
ENTERING	-	0	-	32	-	92	-	65	-	85	-
- SEPS	0	0	3	29	3	89	8	57	6	79	20
(EXP)	0	0	3	29	3	89	8	57	6	79	20
- UPG OUT	10	-10	7	22	9	80	2	55	0	79	28
+ UPG IN	10	0	10	32	7	87	9	64	2	81	38
NET RESULT	0	0	0	32	-5	87	-1	64	-4	81	-10
AUTHORIZED	0	0	31			97		65		85	
SKILL 81											
ENTERING	-	0	-	0	-	1	-	1	-	17	-
NET RESULT	0	0	0	0	0	1	0	1	0	17	0
AUTHORIZED	0	0	0	0	0	1	1	1	1	16	18

FIGURE 14 (continued)

SKILL 82												
ENTERING	-	0	-	48	-	112	-	56	-	42	-	258
- SEPS	0	0	6	42	3	109	7	49	2	40	18	240
(EXP)	0	0	6	42	3	109	7	49	2	40	18	240
- UPG OUT	15	-15	10	32	10	99	1	48	0	40	36	204
+ UPG IN	15	0	15	47	10	109	10	58	1	41	51	255
NET RESULT	0	0	-1	47	-3	109	2	58	-1	41	-3	255
AUTHORIZED	0	0		47		113		52		40		252
SKILL 83												
ENTERING	-	0	-	25	-	105	-	94	-	107	-	331
- SEPS	0	0	2	23	4	101	13	81	6	101	25	306
(EXP)	0	0	2	23	4	101	13	81	6	101	25	306
- UPG OUT	8	-8	6	17	10	91	2	79	0	101	26	280
+ UPG IN	8	0	8	25	6	97	10	89	2	103	34	314
NET RESULT	0	0	0	25	-8	97	-5	89	-4	103	-17	314
AUTHORIZED	0	0		26		117		97		107		347
SKILL 84												
ENTERING	-	0	-	0	-	15	-	24	-	31	-	70
- SEPS	0	0	0	0	0	15	3	21	1	30	4	66
(EXP)	0	0	0	0	0	15	3	21	1	30	4	66
- UPG OUT	0	0	0	0	2	13	1	20	0	30	3	63
+ UPG IN	0	0	0	0	0	13	2	22	1	31	3	66
NET RESULT	0	0	0	0	-2	13	-2	22	0	31	-4	66
AUTHORIZED	0	0		0		18		27		30		75
SKILL 85												
ENTERING	-	0	-	33	-	126	-	84	-	67	-	310
- SEPS	0	0	3	30	5	121	11	73	5	62	24	286
(EXP)	0	0	3	30	5	121	11	73	5	62	24	286
- UPG OUT	11	-11	7	23	12	109	2	71	0	62	32	254
+ UPG IN	11	0	11	34	7	116	12	83	2	64	43	297
NET RESULT	0	0	1	34	-10	116	-1	83	-3	64	-13	297
AUTHORIZED	0	0		33		140		81		67		321

FIGURE 14 (continued)

SKILL 86											
ENTERING	-	0	-	20	-	38	-	25	-	57	-
- SEPS	0	0	2	18	0	38	3	22	4	53	9
(EXP)	0	0	2	18	0	38	3	22	4	53	9
- UPG OUT	6	-6	5	13	3	35	1	21	0	53	15
+ UPG IN	6	0	6	19	5	40	3	24	1	54	21
NET RESULT	0	0	-1	19	2	40	-1	24	-3	54	-3
AUTHORIZED	0	0	-	18	-	36	-	24	-	58	-
SKILL 87											
ENTERING	-	0	-	24	-	48	-	56	-	32	-
- SEPS	0	0	2	22	1	47	7	49	1	31	11
(EXP)	0	0	2	22	1	47	7	49	1	31	11
- UPG OUT	8	-8	6	16	4	43	1	48	0	31	19
+ UPG IN	8	0	8	24	6	49	4	52	1	32	27
NET RESULT	0	0	0	24	1	49	-4	52	0	32	-3
AUTHORIZED	0	0	-	24	-	46	-	62	-	30	-
SKILL 88											
ENTERING	-	0	-	0	-	96	-	179	-	118	-
- SEPS	0	0	0	0	5	91	31	148	6	112	42
(EXP)	0	0	0	0	5	91	31	148	6	112	42
- UPG OUT	0	0	0	0	10	81	4	144	0	112	14
+ UPG IN	0	0	0	0	0	81	10	154	4	116	14
NET RESULT	0	0	0	0	-15	81	-25	154	-2	116	-42
AUTHORIZED	0	0	-	0	-	120	-	202	-	118	-
SKILL 89											
ENTERING	-	0	-	125	-	207	-	107	-	54	-
- SEPS	0	0	13	112	8	199	14	93	3	51	38
(EXP)	0	0	13	112	8	199	14	93	3	51	38
- UPG OUT	40	-40	28	84	16	183	2	91	0	51	86
+ UPG IN	40	0	40	124	28	211	16	107	2	53	126
NET RESULT	0	0	-1	124	4	211	0	107	-1	53	2
AUTHORIZED	0	0	-	124	-	189	-	102	-	52	-

FIGURE 14 (continued)

SKILL 90												
ENTERING	-	0	-	0	-	41	-	52	-	41	-	174
- SEPS	0	0	0	0	3	78	6	46	1	40	10	164
(EXP)	0	0	0	0	3	78	6	46	1	40	10	164
- UPG OUT	0	0	0	0	9	69	1	45	0	40	10	154
+ UPG IN	0	0	0	0	0	69	9	54	1	41	10	164
NET RESULT	0	0	0	0	-12	69	2	54	0	41	-10	164
AUTHORIZED	0	0	0	0		99		46		40		185
SKILL 91												
ENTERING	-	0	-	0	-	19	-	19	-	5	-	43
- SEPS	0	0	0	0	0	19	2	17	0	5	2	41
(EXP)	0	0	0	0	0	19	2	17	0	5	2	41
- UPG OUT	0	0	0	0	2	17	1	16	0	5	3	38
+ UPG IN	0	0	0	0	0	17	2	18	1	6	3	41
NET RESULT	0	0	0	0	-2	17	-1	18	1	6	-2	41
AUTHORIZED	0	0	0	0		22		20		5		47
GRAND TOTAL												
ENTERING	-	0	-	1527	-	3320	-	2111	-	1443	-	8401
- SEPS	0	0	158	1369	115	3205	278	1833	73	1370	624	7777
(EXP)	0	0	158	1369	115	3205	278	1833	73	1370	624	7777
- UPG OUT	489	-489	341	1028	287	2918	46	1787	0	1370	1163	6614
+ UPG IN	489	0	489	1517	341	3259	287	2074	46	1416	1652	8266
NET RESULT	0	0	-10	1517	-61	3259	-37	2074	-27	1416	-135	8266
AUTHORIZED	0	0		1517		3259		2074		1416		8266

FIGURE 15: S2 Base Supplies for Year 2

SCENARIO 52 - "STEADY STATE" . . .																		
PERIOD 13 ACTUAL SUPPLIES FOR SKILL 6																		
BASE																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																		
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	9	7	7	11	11	11	14	151
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	7
- LEVY OUT	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	3
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3
- TT IN	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	2	6
NEW SUPPLY																		
AUTHORIZED	0	1	10	10	9	9	10	10	9	9	9	6	7	12	12	10	16	149
DEMAND	0	0	0	0	1	1	0	0	1	1	1	4	3	-2	-2	-2	-6	0
LEVEL 5																		
INIT. SUPPLY	0	3	33	32	30	29	28	27	25	27	28	27	25	32	33	33	42	454
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	7
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
- UPG IN	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	7
- LEVY OUT	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	5
- ROTATEES	0	0	2	1	1	1	0	0	0	0	0	0	1	0	0	0	0	6
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	5
- TT IN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
NEW SUPPLY																		
AUTHORIZED	0	3	34	33	32	30	27	27	25	26	27	26	25	33	33	32	42	455
DEMAND	0	-1	-2	-1	0	2	5	5	7	6	5	6	7	-1	-1	-6	-10	21

FIGURE 15: S2 Base Supplies for Year 2

• • • SCENARIO S2 - "STEADY STATE" • • •

PERIOD 13 ACTUAL SUPPLIES FOR SKILL 6																	
LEVEL 3																	
BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 TOTAL RPOOL
INIT. SUPPLY	0	1	10	10	10	10	10	10	10	10	9	7	7	11	11	11	151
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	7
- LEVY OUT	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3
+ TI IN	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	6
NEW SUPPLY	0	1	10	10	9	9	10	10	9	9	9	6	7	12	12	10	149
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	8	149
DEMAND	0	0	0	0	1	1	0	0	1	1	1	4	3	-2	-2	-6	0
LEVEL 5																	
INIT. SUPPLY	0	3	33	32	30	29	28	27	25	27	28	27	25	32	33	33	454
- SEPS	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4
- ROTATELS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
+ UPG IN	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	7
- LEVY OUT	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	5
+ ROTATELS	0	0	2	1	1	1	0	0	0	0	0	0	1	0	0	0	6
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	5
+ TI IN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
NEW SUPPLY	0	3	34	33	32	30	27	27	25	26	27	26	25	33	33	32	455
AUTHORIZED	0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	26	476
DEMAND	0	-1	-2	-1	0	2	5	5	7	6	5	6	7	-1	-1	-6	21

FIGURE 15 (continued)

PERIOD 14 ACTUAL SUPPLIES FOR SKILL 6																			
LEVEL 3		BASE																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	1	10	10	9	9	10	10	9	9	9	6	7	12	12	10	16	149
- SEPS		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG OUT		0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	0	6
- LEVY OUT		0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	8
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	3	8
+ TT IN		0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	2	5
NEW SUPPLY		0	1	9	8	8	8	8	8	8	8	9	6	7	14	14	11	20	147
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	149
DEMAND		0	0	1	2	2	2	2	2	2	2	1	4	3	-4	-4	-3	-10	2
LEVEL 5																			
INIT. SUPPLY		0	3	34	33	32	30	27	27	25	26	27	26	25	33	33	32	42	455
- SEPS		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	5
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+ UPG IN		0	0	0	1	0	0	1	1	0	0	0	0	0	1	1	0	1	6
- LEVY OUT		0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	7
+ ROTATES		0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	4	7
NEW SUPPLY		0	3	35	34	32	30	27	27	24	25	26	25	24	34	34	30	46	456
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	26	32	476
DEMAND		0	-1	-3	-2	0	2	5	5	8	7	6	7	8	-2	-2	-4	-14	20

FIGURE 15 (continued)

LEVEL 7		0	3	40	39	39	34	33	34	34	34	35	39	41	36	43	557
INIT. SUPPLY		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
- LEVY OUT		0	0	0	1	1	1	0	1	1	1	1	0	0	0	0	10
+ ROTATEES		0	0	2	2	2	1	1	0	0	0	0	0	0	0	0	4
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	8
NEW SUPPLY		0	3	41	40	40	34	34	33	33	33	34	39	41	34	44	556
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	31	38	566
DEMAND		0	0	-3	-2	-2	4	4	5	5	5	4	-1	-3	-3	-6	10

LEVEL 9		0	0	5	5	5	5	7	6	6	7	5	5	5	6	9	86
INIT. SUPPLY		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
+ ROTATEES		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NEW SUPPLY		0	0	6	5	5	4	7	6	6	7	5	5	5	6	9	85
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	6	5	6	89
DEMAND		0	0	0	1	1	2	2	-1	0	0	-1	1	1	-1	-3	4

FIGURE 15 (continued)

PERIOD 15 ACTUAL SUPPLIES FOR SKILL 6																				
LEVEL 3		BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	1	9	8	8	8	8	8	8	8	8	9	6	7	14	14	11	20	147
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
+ ROTATEES		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+ TT IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
NEW SUPPLY		0	1	9	9	8	8	8	8	8	8	8	8	6	7	13	13	11	21	146
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	149
DEMAND		0	0	1	1	2	2	2	2	2	2	2	2	4	3	-3	-3	-3	-11	3
LEVEL 5																				
INIT. SUPPLY		0	3	35	34	32	30	27	27	27	24	25	26	25	24	34	34	30	46	456
- SEPS		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	3
+ UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	4
+ ROTATEES		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	4
NEW SUPPLY		0	3	35	34	33	30	27	27	27	24	24	25	24	23	35	35	29	49	457
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	32	26	32	476
DEMAND		0	-1	-3	-2	-1	2	5	5	5	8	8	7	8	9	-3	-3	-3	-17	19
LEVEL 7																				
INIT. SUPPLY		0	3	41	40	40	40	34	34	34	33	33	33	33	34	39	41	34	44	556
- SEPS		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	7
- LEVY OUT		0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	6
+ ROTATEES		0	0	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	7
+ LEVY IN		0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	6
NEW SUPPLY		0	3	41	40	40	40	34	34	34	33	33	33	33	34	39	41	33	44	555
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	31	38	566
DEMAND		0	0	-3	-2	-2	-2	4	4	4	5	5	5	5	4	-1	-3	-2	-6	11
LEVEL 9																				
NO CHANGE																				

FIGURE 15 (continued)

PERIOD 16 ACTUAL SUPPLIES FOR SKILL 6																			
LEVEL 3		NO CHANGE																	
BASE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RP00L
LEVEL 5																			
INIT. SUPPLY		0	3	35	34	33	30	27	27	24	24	25	24	23	35	35	29	49	457
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3
- LEVY OUT		0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	4
+ ROTATEES		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	4
NEW SUPPLY		0	3	34	35	34	30	27	27	23	24	24	23	22	35	35	28	51	457
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	26	32	476
DEMAND		0	-1	-4	-3	-2	2	5	5	9	8	8	9	10	-3	-3	-2	-19	19
LEVEL 7																			
INIT. SUPPLY		0	3	41	40	40	40	34	34	33	33	33	33	34	39	41	33	44	555
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	6
- LEVY OUT		0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	5
+ ROTATEES		0	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	6
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	5
NEW SUPPLY		0	3	41	40	40	40	34	34	33	33	33	33	35	39	41	32	44	555
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	31	38	566
DEMAND		0	0	-3	-2	-2	-2	4	4	5	5	5	5	3	-1	-3	-1	-6	11
LEVEL 9																			
NO CHANGE																			

FIGURE 15 (continued)

PERIOD 17 ACTUAL SUPPLIES FOR SKILL 6																	
LEVEL 3																	
INIT. SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 TOTAL RPOOL
BASE	0	1	9	9	8	8	8	8	8	8	8	6	7	13	13	11	21 146
INIT. SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1 3
+ ROTATEES	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0 3
+ TT IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0 2
NEW SUPPLY	0	1	11	10	8	8	8	8	8	8	8	6	7	12	14	8	20 145
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	5	10 146
DEMAND	0	0	-1	0	2	2	2	2	2	2	2	4	3	-2	-4	-3	-10 1
LEVEL 5																	
INIT. SUPPLY	0	3	36	35	34	30	27	27	23	24	24	23	22	35	35	28	51 457
- SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0 2
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0 12
+ UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1 3
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0 4
+ ROTATEES	0	0	1	2	0	0	1	1	1	2	2	2	0	0	0	0	0 12
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2 4
NEW SUPPLY	0	3	36	36	34	30	28	28	24	25	25	24	21	36	36	18	54 458
AUTHORIZED	0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	16	32 466
DEMAND	0	-1	-4	-4	-2	2	4	4	8	7	7	8	11	-4	-4	-2	-22 8
LEVEL 7																	
INIT. SUPPLY	0	3	41	40	40	40	34	34	33	33	33	33	35	39	41	32	44 555
- SEPS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12	2 16
- LEVY OUT	0	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0 5
+ ROTATEES	0	0	2	2	1	1	2	2	2	2	2	0	0	0	0	0	0 16
+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2 5
NEW SUPPLY	0	3	42	41	41	41	36	36	34	34	34	33	34	39	41	21	44 554
AUTHORIZED	0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	19	38 554
DEMAND	0	0	-4	-3	-3	-3	2	2	4	4	4	5	4	-1	-3	-2	-6 0
LEVEL 9																	
INIT. SUPPLY	0	0	6	5	5	4	4	7	6	6	7	5	5	5	5	6	9 85
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 3
+ ROTATEES	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0 3
NEW SUPPLY	0	0	6	6	6	5	4	7	6	6	7	5	5	5	5	3	9 85
AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	3	6 87
DEMAND	0	0	0	0	0	1	2	-1	0	0	-1	1	1	1	1	0	-3 2

FIGURE 15 (continued)

PERIOD 18 ACTUAL SUPPLIES FOR SKILL 6																			
LEVEL 3	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	1	11	10	8	8	8	8	8	8	8	8	6	7	12	14	8	20	145
- SEPS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	8
- UPG OUT	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	6
- LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
* ROTATEES	0	0	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8
* LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* TT IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	5
NEW SUPPLY	0	1	14	11	8	8	8	8	8	8	8	8	5	7	13	14	1	21	143
AUTHORIZED	0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	141
DEMAND	0	0	-4	-1	2	2	2	2	2	2	2	2	5	3	-3	-4	-1	-11	-2

LEVEL 5	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY	0	3	36	36	34	30	30	28	28	24	25	25	24	21	36	36	18	54	458
- SEPS	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	16	0	18
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* UPG IN	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	6
- LEVY OUT	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	4
* ROTATEES	0	0	2	3	3	4	2	2	1	3	0	0	0	0	0	0	0	0	18
* LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	4
NEW SUPPLY	0	3	38	39	37	32	30	29	29	24	25	24	24	20	37	37	2	56	459
AUTHORIZED	0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND	0	-1	-6	-7	-5	0	2	3	3	6	7	8	8	12	-5	-5	-2	-24	-9

FIGURE 15 (continued)

LEVEL 7		0	3	42	41	41	41	36	36	34	34	34	34	33	34	39	41	21	44	554
INIT. SUPPLY		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	19	0	21
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* UPG. IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT		0	0	0	0	1	1	1	0	1	0	0	0	1	0	0	0	0	0	5
* ROTATEES		0	0	2	2	2	2	1	2	3	2	2	2	2	1	0	0	0	0	21
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	5
NEW SUPPLY		0	3	43	42	42	42	36	38	36	36	36	36	34	35	39	41	2	48	553
AUTHORIZED		0	3	36	30	38	38	38	38	38	38	38	38	38	38	38	38	0	38	535
DEMAND		0	0	-5	-4	-4	-4	2	0	2	2	2	2	4	3	-1	-3	-2	-10	-18

LEVEL 9		0	6	6	6	5	4	7	6	6	6	7	5	5	5	5	5	3	9	85
INIT. SUPPLY		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
* ROTATEES		0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
NEW SUPPLY		0	6	6	6	6	6	7	6	6	6	7	5	5	5	5	5	0	9	84
AUTHORIZED		0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	84
DEMAND		0	0	0	0	0	1	-1	0	0	0	-1	1	1	1	1	1	0	-3	0

FIGURE 15 (continued)

PERIOD 19 ACTUAL SUPPLIES FOR SKILL 6																				
LEVEL 3		BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	1	14	11	8	8	8	8	8	8	8	8	5	7	13	14	1	21	143
- SEPS		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
- UPG OUT		0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	6
+ ROTATEES		0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
+ TT IN		0	0	0	0	3	1	0	0	0	0	0	0	0	0	1	1	0	0	6
NEW SUPPLY		0	2	13	10	10	9	8	8	8	8	8	8	5	7	12	13	1	19	141
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	141
DEMAND		0	-1	-3	0	0	1	2	2	2	2	2	2	5	3	-2	-3	-1	-9	0
LEVEL 5		BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	3	38	39	37	32	30	29	29	26	25	24	24	20	37	37	2	56	459
- SEPS		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN		0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	6
- LEVY OUT		0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	7
+ ROTATEES		0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	4
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	3	7
NEW SUPPLY		0	3	39	40	37	31	30	28	28	25	24	23	23	20	38	38	2	59	460
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND		0	-1	-7	-8	-5	1	2	4	7	7	8	9	9	12	-6	-6	-2	-27	-10

FIGURE 15 (continued)

LEVEL 7		0	3	43	42	42	42	36	38	36	36	36	34	35	39	41	2	48	553
INIT. SUPPLY		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2
+ UP4 IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ ROTATEES		0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	8
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4
NEW SUPPLY		0	3	43	42	42	42	35	37	35	35	35	34	34	39	41	2	53	552
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	0	38	535
DEMAND		0	0	-5	-4	-4	-4	3	1	3	3	3	4	4	-1	-3	-2	-15	-17

LEVEL 9		0	6	6	6	6	5	7	6	6	6	7	5	5	5	5	0	9	84
INIT. SUPPLY		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ ROTATEES		0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NEW SUPPLY		0	6	6	6	6	5	7	6	6	6	7	5	5	4	5	0	9	83
AUTHORIZED		0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	84
DEMAND		0	0	0	0	0	0	1	-1	0	0	-1	1	1	2	1	0	-3	1

FIGURE 15 (continued)

PERIOD 20 ACTUAL SUPPLIES FOR SKILL 6																			
LEVEL 1	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	2	13	10	10	9	8	8	8	8	8	5	7	12	13	1	19	141
- SEPS		0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3
- UPG OUT		0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	0	2	14
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
* ROTATEES		0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
* TT IN		0	0	0	2	2	2	3	3	0	0	0	0	0	0	0	0	0	12
NEW SUPPLY		0	2	13	10	10	10	10	10	7	7	7	6	5	11	11	1	16	136
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	141
DEMAND		0	-1	-3	0	0	0	0	0	3	3	3	4	5	-1	-1	-1	-6	5

LEVEL 5	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	3	39	40	37	31	30	28	25	24	23	23	20	38	38	2	59	460
- SEPS		0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	9
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	5
- UPG OUT		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	3
* UPG IN		0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	2	14
- LEVY OUT		0	0	0	0	0	1	0	1	0	1	1	1	1	0	0	0	0	6
* ROTATEES		0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6
NEW SUPPLY		0	3	40	40	38	31	30	27	25	23	22	22	20	38	38	2	63	462
AUTHORIZED		0	2	37	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND		0	-1	-8	-8	-4	1	2	5	7	9	10	10	12	-6	-6	-2	-31	-12

FIGURE 15 (continued)

LEVEL 7		0	3	43	42	42	42	35	37	35	35	35	34	34	34	39	41	2	53	552
INIT. SUPPLY		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	1
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
* ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	9
NEW SUPPLY		0	3	43	43	42	42	35	36	34	34	34	33	33	33	39	41	2	57	551
AUTHORIZED		0	3	30	38	38	38	38	38	38	38	38	38	38	38	38	38	0	38	535
DEMAND		0	0	-5	-5	-4	-4	3	2	4	4	4	5	5	5	-1	-3	-2	-19	-16
LEVEL 9		0	0	6	6	6	6	5	7	6	6	6	7	5	5	4	5	0	9	83
INIT. SUPPLY		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
* UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NEW SUPPLY		0	0	6	6	6	6	5	7	6	6	6	7	5	5	4	4	0	10	83
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	84
DEMAND		0	0	0	0	0	0	1	-1	0	0	-1	1	1	1	2	2	0	-4	1

FIGURE 15 (continued)

PERIOD 21 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPPOOL
LEVEL 3																			
INIT. SUPPLY	BASE	0	2	13	10	10	10	10	10	7	7	7	6	5	11	11	1	16	136
- SEPS		0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	4
- UPG OUT		0	0	3	2	2	2	2	2	2	1	2	1	1	2	2	0	3	27
* IT IN		0	0	1	3	2	2	3	2	5	3	0	0	0	0	0	0	0	21
NEW SUPPLY		0	2	10	10	10	10	10	10	10	8	5	5	4	9	9	1	13	126
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	141
DEMAND		0	-1	0	0	0	0	0	0	0	2	5	5	6	1	1	-1	-3	15
LEVEL 5																			
INIT. SUPPLY		0	3	40	40	38	31	30	27	25	23	22	22	20	38	38	2	63	462
- SEPS		0	0	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	17
- ROTATES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
- UPG OUT		0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	0	1	5
* UPG IN		0	0	3	2	2	2	2	2	2	1	2	1	1	2	2	0	3	27
- LEVY OUT		0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	3
* ROTATES		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3
NEW SUPPLY		0	3	41	40	39	31	30	26	26	23	23	21	19	38	38	2	67	467
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND		0	-1	-9	-8	-7	1	2	6	6	9	9	11	13	-6	-6	-2	-35	-17

FIGURE 15 (continued)

LEVEL 7		0	3	43	43	43	42	42	35	36	34	34	34	33	33	39	41	2	57	551
INIT. SUPPLY		0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- UPG OUT		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
+ UPG IN		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
+ ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
NEW SUPPLY		0	3	42	44	42	42	33	34	32	33	33	32	32	32	40	42	2	61	547
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	38	0	38	535
DEMAND		0	0	-4	-6	-4	-4	-4	5	4	6	5	5	6	6	-2	-4	-2	-23	-12

LEVEL 9		0	0	6	6	6	6	6	5	7	6	6	7	5	5	4	4	0	10	83
INIT. SUPPLY		0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ UPG IN		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
+ ROTATEES		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ LEVY IN		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEW SUPPLY		0	0	7	6	5	6	5	7	6	6	5	6	5	5	4	4	0	11	82
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	84
DEMAND		0	0	-1	0	1	0	1	-1	0	1	0	1	1	1	2	2	0	-5	2

FIGURE 15 (continued)

PERIOD 22 ACTUAL SUPPLIES FOR SKILL 6																				
LEVEL 3		BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
INIT. SUPPLY		0	2	10	10	10	10	10	10	10	10	8	5	5	4	9	9	1	13	126
- SEPS		0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
- UPG OUT		0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	2	14
+ TT IN		0	0	1	2	2	1	1	1	1	1	2	0	0	0	0	0	0	0	11
NEW SUPPLY		0	2	10	10	10	10	10	10	10	10	9	4	4	4	8	8	1	11	121
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	141
DEMAND		0	-1	0	0	0	0	0	0	0	0	1	6	6	6	2	2	-1	-1	20

LEVEL 5		INIT. SUPPLY	0	3	41	40	39	31	30	26	26	23	23	21	19	38	38	2	67	467
- SEPS		0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	8
- ROTATELS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
- UPG OUT		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3
+ UPG IN		0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	2	14
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
+ ROTATELS		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
NEW SUPPLY		0	3	41	40	39	31	30	26	26	23	23	21	19	38	38	2	70	470	
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND		0	-1	-9	-8	-7	1	2	6	6	6	10	8	10	14	-6	-6	-2	-38	-20

FIGURE 15 (continued)

LEVEL 7		0	3	42	44	42	42	33	34	32	33	33	32	32	40	42	2	61	547
INIT. SUPPLY		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
- ROTATES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6
- UPG OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+ UPG IN		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
- LEVY OUT		0	0	0	0	1	0	1	0	1	1	0	1	1	0	0	0	0	6
+ ROTATES		0	0	2	1	2	0	1	0	0	0	0	0	0	0	0	0	0	6
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6
NEW SUPPLY		0	3	44	45	42	42	33	34	31	32	33	31	31	40	42	2	61	546
AUTHORIZED		0	3	38	38	38	38	38	38	38	38	38	38	38	38	38	0	38	535
DEMAND		0	0	-6	-7	-4	-4	5	4	7	6	5	7	7	-2	-4	-2	-23	-11

LEVEL 9		0	0	7	6	5	6	5	7	6	5	6	5	5	4	4	0	11	82
INIT. SUPPLY		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- SEPS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- ROTATES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+ UPG IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ ROTATES		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+ LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NEW SUPPLY		0	0	7	6	5	6	5	7	6	5	5	5	5	4	4	0	12	82
AUTHORIZED		0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	84
DEMAND		0	0	-1	0	1	0	1	-1	0	1	1	1	1	2	2	0	-6	2

FIGURE 15 (continued)

PERIOD 23 ACTUAL SUPPLIES FOR SKILL 6																			
		BASE																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY		0	2	10	10	10	10	10	10	10	10	9	4	4	4	8	8	1	11
- SEPS		0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	121
- UPG OUT		0	0	2	1	2	1	2	2	2	2	1	1	1	1	1	1	0	3
* TT IN		0	0	3	2	2	2	2	2	2	2	1	0	0	0	0	0	0	20
NEW SUPPLY		0	2	10	10	10	10	10	10	10	10	9	3	3	3	7	7	1	16
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	114
DEMAND		0	-1	0	0	0	0	0	0	0	0	1	7	7	7	3	3	-1	27
LEVEL 5																			
INIT. SUPPLY		0	3	41	40	39	31	30	26	26	22	24	22	18	38	38	2	70	470
- SEPS		0	0	2	1	2	1	1	1	1	1	1	1	1	0	0	0	0	13
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	5
- UPG OUT		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	4
* UPG IN		0	0	2	1	2	1	2	2	2	1	1	1	1	1	1	0	2	20
- LEVY OUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
* ROTATEES		0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
* LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
* TT IN		0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
NEW SUPPLY		0	3	41	40	38	33	32	27	27	22	23	21	18	38	38	2	70	473
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND		0	-1	-9	-8	-6	-1	0	5	5	10	9	11	14	-6	-6	-2	-38	-23

FIGURE 15 (continued)

LEVEL 7	INIT.	SUPPLY	0	3	44	45	42	42	33	34	31	32	33	31	31	31	40	42	2	61	546
- SEPS	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6
- UPG OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
- UPG IN	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
- LEVY OUT	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	6
- ROTATEES	0	0	2	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	6
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6
NEW SUPPLY	0	3	46	46	42	41	32	34	31	31	31	31	32	30	31	40	42	2	61	544	
AUTHORIZED	0	3	3A	38	38	38	38	38	38	38	38	38	38	38	38	38	38	0	38	535	
DEMAND	0	0	-8	-8	-4	-3	6	4	7	7	7	7	6	8	7	-2	-4	-2	-23	-9	

LEVEL 9																					
INIT.	SUPPLY	0	0	7	6	5	6	5	6	5	7	6	5	5	5	5	4	4	0	12	82
-	SEPS	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
-	ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+	UPG IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
-	LEVY OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+	ROTATEES	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
+	LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	NEW SUPPLY	0	0	7	5	5	6	5	7	5	5	5	5	5	5	5	4	4	0	13	81
---	AUTHORIZED	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	84
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	DEMAND	0	0	-1	1	1	0	1	-1	1	1	1	1	1	1	1	2	2	0	-7	3

FIGURE 15 (continued)

PERIOD 24 ACTUAL SUPPLIES FOR SKILL 6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL RPOOL
LEVEL 3																			
INIT. SUPPLY	BASE	0	2	10	10	10	10	10	10	10	9	3	3	3	7	7	1	9	114
- SEPS		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
- UPG OUT		0	1	2	2	2	2	2	2	2	2	1	1	1	2	2	0	2	26
- ROTATEES		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- TT IN		0	0	3	3	3	3	2	2	2	3	0	0	0	0	0	0	0	21
NEW SUPPLY		0	2	10	10	10	10	10	10	10	10	2	2	2	5	4	1	7	105
AUTHORIZED		0	1	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	141
DEMAND		0	-1	0	0	0	0	0	0	0	0	8	8	8	5	6	-1	3	36
LEVEL 5																			
INIT. SUPPLY		0	3	41	40	38	33	32	27	27	22	23	21	18	38	38	2	70	473
- SEPS		0	0	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	17
- ROTATEES		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
- UPG OUT		0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	5
- UPG IN		0	1	2	2	2	2	2	2	2	2	1	1	1	2	2	0	2	26
- LEVY OUT		0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
- ROTATEES		0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
- LEVY IN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
NEW SUPPLY		0	4	41	40	39	33	32	27	28	22	23	21	17	38	38	2	72	477
AUTHORIZED		0	2	32	32	32	32	32	32	32	32	32	32	32	32	32	0	32	450
DEMAND		0	-2	-9	-8	-7	-1	0	5	4	10	9	11	15	-6	-6	-2	-40	-27

FIGURE 15 (continued)

LEVEL 7	0	3	46	46	42	41	32	34	31	31	32	30	31	40	42	2	41	544
MINITY. SUPPLY	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7
- SEPS	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	7
- ROTATEES	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
- UPG OUT	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
- UPG IN	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
- LEVY OUT	0	0	0	0	0	1	1	1	1	0	1	0	1	0	0	0	0	6
- ROTATEES	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	6
- LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	6
NEW SUPPLY	0	3	46	47	42	40	31	33	29	31	31	30	30	41	43	2	41	540
AUTHORIZED	0	3	30	38	38	38	3A	38	38	38	38	38	38	38	38	0	38	535
DEMAND	0	0	-8	-9	-4	-2	7	5	9	7	7	8	8	-3	-5	-2	-23	-5

LEVEL 9																		
INIT. SUPPLY	0	0	7	5	5	6	5	7	5	5	5	5	5	5	4	0	13	81
- SEPS	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
+ UPG IN	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
- LEVY OUT	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
+ LEVY IN	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEW SUPPLY	0	0	8	5	5	5	5	7	5	4	4	5	5	4	4	0	14	80
AUTHORIZED	0	0	6	6	5	6	6	6	6	6	6	6	6	6	6	0	6	84
DEMAND	0	0	-2	1	1	1	1	-1	1	2	2	1	1	2	2	0	-8	4

FIGURE 16: Base 16 Supplies and Authorizations
in Skill 6 for S1 and S2

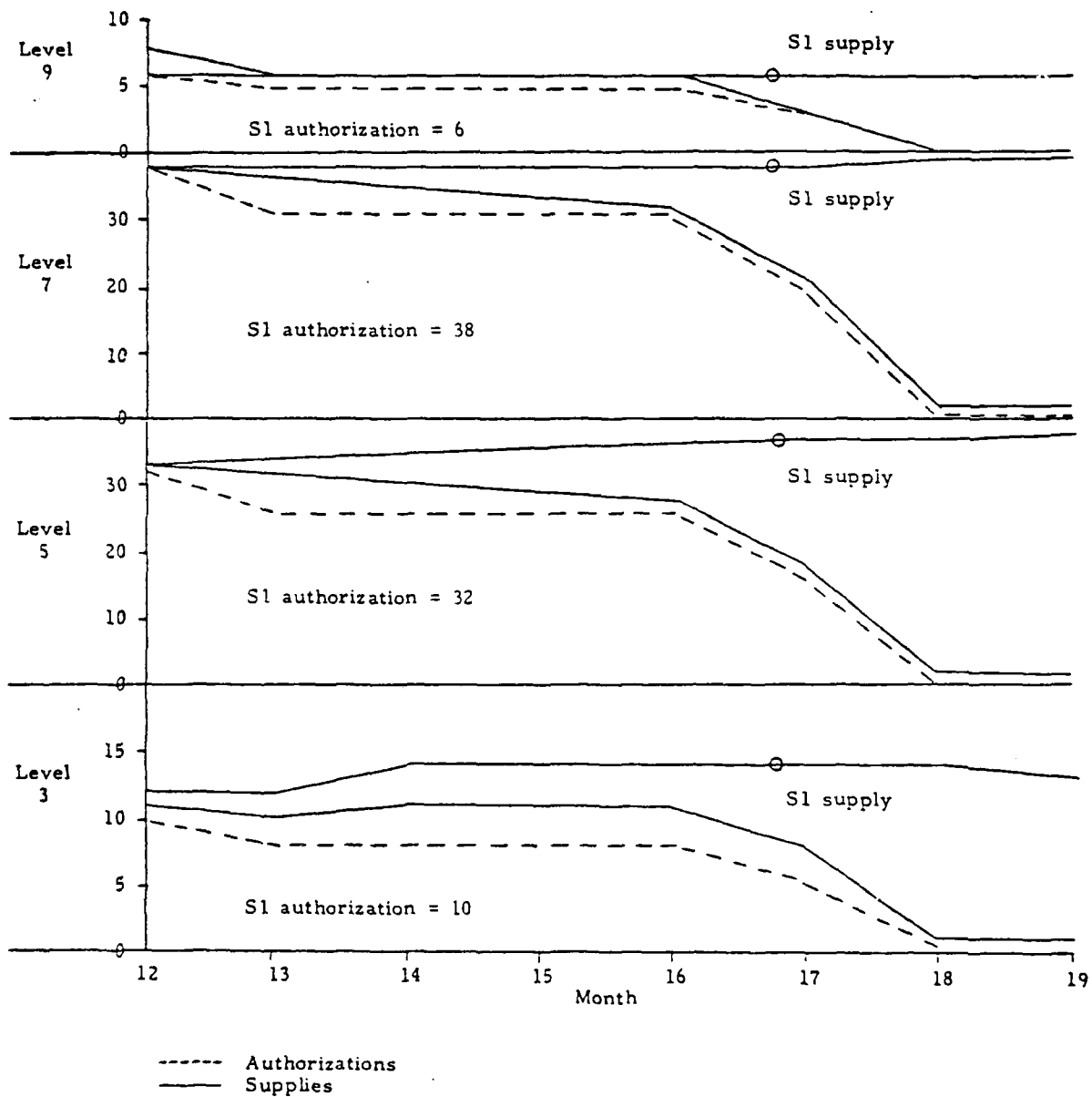


FIGURE 17: Base 16 Supplies and Authorizations
in Skill 8 for S2

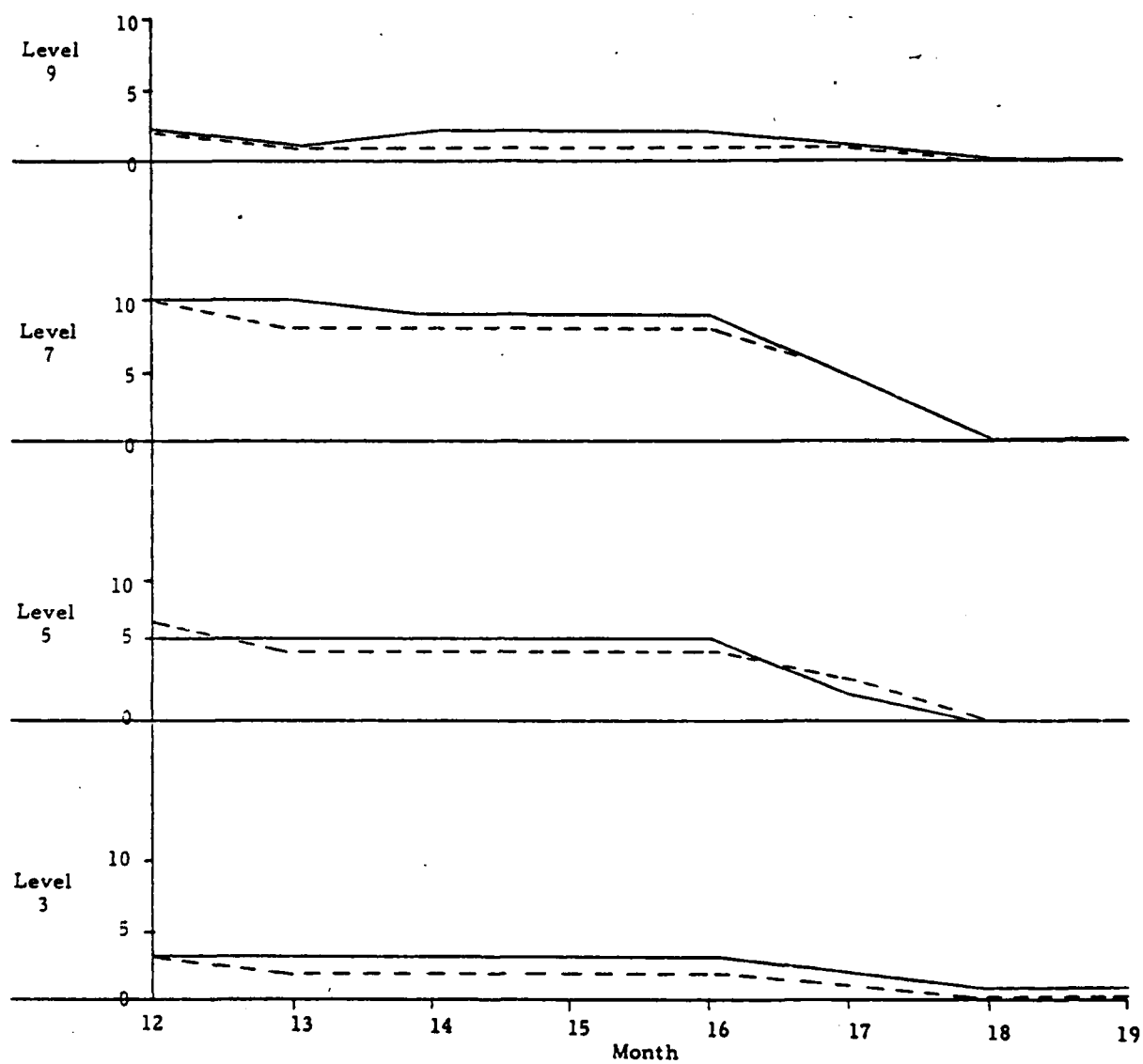


FIGURE 18: Base 17 Supplies and Authorizations
in Skill 8 for S2

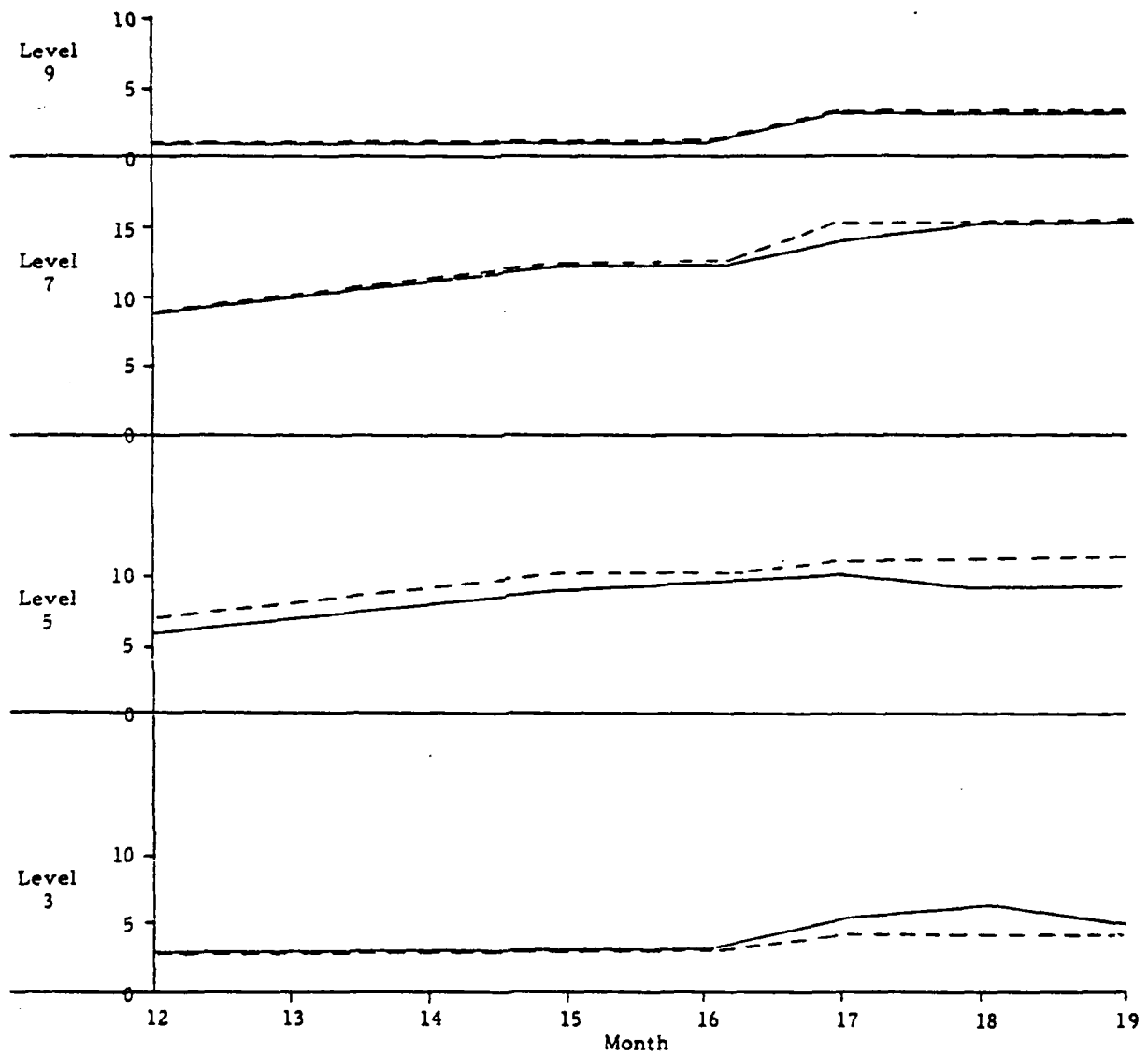


FIGURE 19: S2 PCS Reports for Years 1-4

• • • CONTINUED TO 52 - "STEADY STATE" • • •

REPORTS FOR YEAR 1

FROM SKILL 1 TO 91

	LEVFL 1	LEVEL 3	LEVFL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CONUS	4011	3651	275	64	20	8021
TO SCHOOL	4011	0	7	2	3	4023
FROM SCHOOL	0	3409	9	0	3	3421
LEVY	0	242	259	62	14	577
OVERSEAS TO CONUS	0	922	3487	2689	597	7695
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	922	3484	2683	595	7684
OTHER	0	0	3	6	2	11
CONUS TO OVERSEAS	0	958	2997	2585	585	7125
FROM SCHOOL	0	159	0	0	0	159
LEVY	0	799	2997	2585	585	6966
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
Total	4011	5511	6757	5338	1202	22841

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTRA-CORPUS TO SCHOOL	104	91	0	0	2	197
FROM SCHOOL	104	0	0	0	0	104
LEVY	0	91	0	0	1	92
	0	0	0	0	1	1
OVERSEAS TO CORPUS TO SCHOOL	0	26	85	111	24	246
ROTATION	0	0	0	0	0	0
OTHER	0	26	85	111	24	246
	0	0	0	0	0	0
CORPUS TO OVERSEAS FROM SCHOOL	0	47	96	106	21	270
LEVY	0	14	0	0	0	14
	0	33	96	106	21	256
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	104	164	181	217	47	713

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
DATA-CORUS	3365	2955	192	31	17	6560
FROM SCHOOL	3365	0	7	2	3	3377
FROM SCHOOL	0	2779	9	0	3	2791
FROM SCHOOL	0	176	176	29	11	392
OVERSEAS TO CORUS	0	671	2960	2350	357	6338
FROM SCHOOL	0	0	0	0	0	0
ROTATION	0	671	2960	2350	355	6336
OTHER	0	0	0	0	2	2
CORUS TO OVERSEAS	0	696	2505	2260	350	5811
FROM SCHOOL	0	94	0	0	0	94
FROM SCHOOL	0	602	2505	2260	350	5717
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	3365	4322	5057	4641	724	19709

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INFLUX-CONUS	646	696	83	33	3	1461
TO SCHOOL	646	0	0	0	0	646
FROM SCHOOL	0	630	0	0	0	630
LEVY	0	66	83	33	3	185
OVERSEAS TO CONUS	0	251	527	339	240	1357
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	251	524	333	240	1348
OTHER	0	0	3	6	0	9
CONUS TO OVERSEAS	0	262	492	325	235	1314
FROM SCHOOL	0	65	0	0	0	65
LEVY	0	197	492	325	235	1249
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
Total	646	1209	1102	697	478	4132

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
AFRA-CORPUS	3906	2901	246	61	31	7145
TO SCHOOL	3906	0	0	4	3	3921
FROM SCHOOL	0	2823	13	3	2	2841
LEVY	0	78	225	54	26	383
OVERSEAS TO CORPUS	0	460	3131	2368	403	6362
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	457	3113	2349	398	6317
OTHER	0	3	18	19	5	45
CORPUS TO OVERSEAS	0	1146	2714	2214	358	6432
FROM SCHOOL	0	532	0	0	1	533
LEVY	0	614	2714	2214	357	5899
OVERSEAS TO OVERSEAS	0	125	488	342	72	1027
TOTAL	3906	4612	577	4985	864	20966

FIGURE 19 (continued)

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 8	TOTAL
FROM SCHOOL	106	86	0	0	0	0	0	4	196
TO SCHOOL	106	0	0	0	0	0	0	0	106
FROM SCHOOL	0	86	0	0	0	0	0	0	86
LEVY	0	0	0	0	0	0	0	4	4
OVERSEAS TO CONUS	0	19	70	98	14	201	0	0	201
TO SCHOOL	0	0	0	0	0	0	0	0	0
ROTATION	0	17	67	98	14	196	0	0	196
OTHER	0	2	3	0	0	5	0	0	5
CONUS TO OVERSEAS	0	33	50	80	6	169	0	0	169
FROM SCHOOL	0	19	0	0	0	19	0	0	19
LEVY	0	14	50	80	6	150	0	0	150
OVERSEAS TO OVERSEAS	0	0	0	0	0	0	0	0	0
TOTAL	106	138	120	178	24	566			

FIGURE 19 (continued)

	LIVEL 1	LIVEL 2	LIVEL 3	LIVEL 4	LIVEL 5	LIVEL 6	LIVEL 7	LIVEL 8	LIVEL 9	TOTAL
GOVERNMENT	2394	2529	301	36	21	6177				
NON-GOVERNMENT	3390	0	0	4	3	3405				
TOTAL SCHOOL	0	2489	12	3	2	2506				
UNEMPLOYED	0	40	101	29	16	266				
GOVERNMENT TO CONUS	0	331	2745	2139	236	5451				
TO SCHOOL	0	0	0	0	0	0				
TOTAL	0	329	2739	2131	233	5432				
OVERSEAS	0	2	6	8	3	19				
GOVERNMENT TO OVERSEAS	0	904	2064	2013	209	5490				
FROM SCHOOL	0	383	0	0	1	384				
TOTAL	0	521	2064	2013	208	5106				
GOVERNMENT TO OVERSEAS	0	39	365	296	46	746				
TOTAL	3390	3803	5270	4484	512	17864				

FIGURE 19 (continued)

MOVES FROM 1970 TO 1971

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 9	TOTAL
IN-LAW-CORPUS TO SCHOOL	516	372	0	0	45	0	25	10	968
FROM SCHOOL	516	0	0	0	0	0	0	0	516
LEVY	0	334	0	0	1	0	0	0	335
	0	38	0	0	44	0	25	10	117
OVERSEAS TO CORPUS TO SCHOOL	0	129	0	0	386	0	229	167	911
ROTATION	0	0	0	0	0	0	0	0	0
OTHER	0	128	0	0	374	0	218	165	885
	0	1	0	0	12	0	11	2	26
CORPUS TO OVERSEAS FROM SCHOOL	0	242	0	0	350	0	201	149	942
LEVY	0	149	0	0	0	0	0	0	149
	0	93	0	0	350	0	201	149	793
OVERSEAS TO OVERSEAS	0	86	0	0	123	0	46	26	281
TOTAL	516	829	0	0	449	0	501	352	3102

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
SEA-CONUS	3805	2816	291	68	14	6944
SEA-SCHOOL	3805	0	4	1	0	3810
SEA-SCHOOL	0	2798	10	1	1	2810
LEVY	0	18	227	66	13	324
OVERSEAS TO CONUS	0	436	3071	2350	458	6315
SEA-SCHOOL	0	0	0	0	0	0
ADDITION	0	433	3059	2328	452	6272
TOTAL	0	3	12	22	6	43
OVERSEAS TO OVERSEAS	0	1076	2091	2311	445	6823
SEA-SCHOOL	0	535	0	0	0	535
LEVY	0	541	2021	2311	445	6288
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	0	4328	2300	4729	717	20082

FIGURE 19 (continued)

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 8	TOTAL
CONUS TO CONUS	105	105	0	0	0	0	0	2	212
CONUS TO SCHOOL	105	0	0	0	0	0	0	0	105
FROM SCHOOL	0	105	0	0	0	0	0	0	105
LEVY	0	0	0	0	0	0	0	2	2
OVERSEAS TO CONUS	0	15	42	69	16	16	16	142	142
CONUS TO SCHOOL	0	0	0	0	0	0	0	0	0
FROM SCHOOL	0	13	42	69	16	16	16	140	140
LEVY	0	2	0	0	0	0	0	2	2
CONUS TO OVERSEAS	0	21	69	86	15	15	15	191	191
FROM SCHOOL	0	0	0	0	0	0	0	0	0
LEVY	0	21	69	86	15	15	15	191	191
OVERSEAS TO OVERSEAS	0	0	0	0	0	0	0	0	0
TOTAL	105	141	111	155	33	33	33	595	595

FIGURE 19 (continued)

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
PERSONNEL						
IN SCHOOL	425	391	91	36	5	948
OUT OF SCHOOL	425	0	0	0	0	425
IN SCHOOL	0	376	4	0	0	380
NAVY	0	15	87	36	5	143
OVERSEAS TO CONUS	0	179	363	239	180	981
IN SCHOOL	0	0	0	0	0	0
OUT OF SCHOOL	0	178	373	228	177	956
OTHER	0	1	10	11	3	25
PERSONNEL TO OVERSEAS	0	300	452	243	186	1181
IN SCHOOL	0	73	0	0	0	73
NAVY	0	227	452	243	186	1108
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	425	870	926	518	371	3110

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
UNITED STATES						
Inland	3651	2736	225	81	38	6791
Overseas	3651	0	0	4	0	3655
TOTAL	0	2711	4	4	0	2719
LEVY	0	25	281	73	38	417
OVERSEAS						
Inland	0	414	2672	2178	396	5860
Overseas	0	6	0	0	0	0
TOTAL	0	409	2672	2154	395	5805
LEVY	0	10	20	24	1	55
UNITED STATES						
Inland	0	965	2778	2156	380	6279
Overseas	0	615	0	0	0	615
TOTAL	0	350	2778	2156	380	5664
LEVY	0	0	0	0	0	0
TOTAL	3651	4115	6205	4415	814	14930

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
CONUS-CONUS	105	105	0	0	0	210
TO SCHOOL	105	0	0	0	0	105
FROM SCHOOL	0	105	0	0	0	105
LEVY	0	0	0	0	0	0
OVERSEAS TO CONUS	0	9	43	62	8	122
TO SCHOOL	0	0	0	0	0	0
ROTATION	0	7	41	62	8	118
OTHER	0	2	2	0	0	4
CONUS TO OVERSEAS	0	25	66	81	9	181
FROM SCHOOL	0	0	0	0	0	0
LEVY	0	25	66	81	9	181
OVERSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	105	139	117	143	17	511

FIGURE 19 (continued)

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
SCHEMATIC	3395	2370	1926	49	19	5981
SCHEMATIC	3395	0	0	4	0	3349
SCHEMATIC	0	2370	0	4	0	2374
SCHEMATIC	0	0	1926	41	19	258
SCHEMATIC	0	233	2119	1971	230	4953
SCHEMATIC	0	0	0	0	0	0
SCHEMATIC	0	228	2115	1957	230	4930
SCHEMATIC	0	5	4	14	0	23
SCHEMATIC	0	671	2395	1940	219	5225
SCHEMATIC	0	547	0	0	0	547
SCHEMATIC	0	124	2395	1940	219	4678
SCHEMATIC	0	0	0	0	0	0
SCHEMATIC	0	3274	3112	3960	968	15159

FIGURE 19 (continued)

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 8	LEVEL 9	TOTAL
OVERSEAS STUDENTS	306	366		87			32	19		810
IN SCHOOL	306	0		0			0	0		306
IN SCHOOL	0	341		4			0	0		345
OTHER	0	25		83			32	19		159
OVERSEAS TO CONUS	0	181		63			207	166		907
IN SCHOOL	0	0		0			0	0		0
TOTAL	0	176		63			197	165		875
OTHER	0	5		16			10	1		32
OVERSEAS TO OVERSEAS	0	294		383			216	161		1054
IN SCHOOL	0	68		0			0	0		68
OTHER	0	226		383			216	161		986
OVERSEAS TO OVERSEAS	0	0		0			0	0		0
TOTAL	306	891		773			455	346		2771

FIGURE 20: S3 Requirements and Authorizations for Year 2

• • • SCENARIO S3 - REDUCED YES • • •

TEAM 2: MANPOWER REQUIREMENTS (A) VS AUTHORIZATION (B)

CATEGORY 1 SKILLS:

SPL	LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF TOTAL B
	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	
1	6	6(100)	22	22(100)	31	31(100)	12	12(100)	71	71(100)	0.5
2	12	12(100)	21	21(100)	49	49(100)	12	12(100)	94	94(100)	0.7
3	14	14(100)	67	67(100)	165	165(100)	28	28(100)	274	274(100)	2.0
17	6	6(100)	25	25(100)	16	16(100)	0	0(000)	47	47(100)	0.3
18	9	9(100)	73	73(100)	55	55(100)	0	0(000)	137	137(100)	1.0
19	9	9(100)	40	40(100)	27	27(100)	8	8(100)	84	84(100)	0.6
20	7	7(100)	132	132(100)	85	85(100)	4	4(100)	228	228(100)	1.6
21	75	75(100)	338	338(100)	181	181(100)	28	28(100)	622	622(100)	4.5
22	90	90(100)	708	708(100)	633	633(100)	58	58(100)	1489	1489(100)	10.8
23	1	1(100)	7	7(100)	9	9(100)	0	0(000)	17	17(100)	0.1
24	1	1(100)	8	8(100)	11	11(100)	0	0(000)	20	20(100)	0.1
25	2	2(100)	5	5(100)	12	12(100)	0	0(000)	19	19(100)	0.1
27	290	290(100)	1730	1730(100)	1087	1087(100)	94	94(100)	3201	3201(100)	23.1
28	24	24(100)	162	162(100)	122	122(100)	23	23(100)	331	331(100)	2.4
29	171	171(100)	1192	1192(100)	899	899(100)	167	167(100)	2429	2429(100)	17.6
30	58	58(100)	344	344(100)	246	246(100)	0	0(000)	648	648(100)	4.7
31	3	3(100)	21	21(100)	25	25(100)	40	40(100)	89	89(100)	0.6
32	119	119(100)	441	441(100)	254	254(100)	33	33(100)	847	847(100)	6.1
33	195	195(100)	1151	1151(100)	503	503(100)	98	98(100)	1952	1952(100)	14.1
36	77	77(100)	366	366(100)	241	241(100)	19	19(100)	703	703(100)	5.1
40	54	54(100)	43	43(100)	287	287(100)	33	33(100)	417	417(100)	3.0
51	15	15(100)	56	56(100)	44	44(100)	5	5(100)	120	120(100)	0.9
TOTAL	1238	1238(100)	6952	6952(100)	4987	4987(100)	662	662(100)	13839	13839(100)	100.0

FIGURE 20 (continued)

CATEGORY 2 SKILLS:																
SPL	LEVEL 3			LEVEL 5			LEVEL 7			LEVEL 9			TOTAL		PCT OF TOTAL B	
	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--	(%)	--A--	--B--		(%)
4	355	349	(98)	541	532	(98)	559	550	(98)	95	93	(98)	1550	1524	(98)	19.0
5	19	19	(100)	28	28	(100)	44	43	(98)	2	2	(100)	93	92	(99)	1.1
6	151	148	(98)	483	476	(99)	573	563	(98)	90	89	(99)	1297	1276	(98)	15.9
7	23	23	(100)	67	66	(99)	95	93	(98)	17	17	(100)	202	199	(99)	2.5
8	64	63	(98)	151	148	(98)	202	199	(99)	31	31	(100)	448	441	(98)	5.5
9	31	30	(97)	155	153	(99)	141	143	(98)	20	20	(100)	357	351	(98)	4.4
10	67	66	(97)	638	628	(98)	553	544	(98)	41	40	(98)	1299	1278	(98)	16.0
11	0	0	(000)	16	16	(100)	31	30	(97)	0	0	(000)	47	46	(98)	0.6
12	30	30	(100)	212	209	(99)	212	208	(98)	15	15	(100)	469	462	(99)	5.8
13	76	75	(99)	439	432	(98)	394	387	(98)	60	59	(98)	969	953	(98)	11.9
14	16	16	(100)	59	58	(98)	49	48	(98)	0	0	(000)	124	122	(98)	1.5
16	38	37	(97)	217	214	(99)	200	197	(99)	21	20	(95)	476	468	(98)	5.8
26	77	76	(99)	411	404	(98)	290	286	(99)	25	24	(96)	803	790	(98)	9.9
TOTAL	947	932	(98)	3417	3364	(98)	3353	3296	(98)	417	410	(98)	8134	8002	(98)	100.0

FIGURE 20 (continued)

CATEGORY 1 SKILLS:															
LEVEL 3															
S-L	LEVEL 3		LEVEL 5				LEVEL 7				LEVEL 9		TOTAL		PCT OF TOTAL B
	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	
52	126	126(100)	126	126(100)	33	38(100)	24	24(100)	314	314(100)	9.3				
53	66	66(100)	64	64(100)	18	18(100)	16	16(100)	164	164(100)	4.9				
54	53	53(100)	53	53(100)	74	74(100)	31	31(100)	211	211(100)	6.3				
55	124	124(100)	123	123(100)	26	26(100)	13	13(100)	286	286(100)	8.5				
56	24	24(100)	23	23(100)	5	5(100)	3	3(100)	55	55(100)	1.6				
57	40	40(100)	40	40(100)	56	56(100)	23	23(100)	159	159(100)	4.7				
58	44	44(100)	41	41(100)	15	15(100)	7	7(100)	107	107(100)	3.2				
59	45	45(100)	45	45(100)	42	42(100)	6	6(100)	138	138(100)	4.1				
60	32	32(100)	28	28(100)	28	28(100)	4	4(100)	92	92(100)	2.7				
61	34	34(100)	34	34(100)	8	8(100)	4	4(100)	80	80(100)	2.4				
62	57	57(100)	54	54(100)	10	10(100)	8	8(100)	129	129(100)	3.8				
63	26	26(100)	25	25(100)	10	10(100)	0	0(***)	61	61(100)	1.8				
64	37	37(100)	36	36(100)	9	9(100)	0	0(***)	82	82(100)	2.4				
65	9	9(100)	9	9(100)	2	2(100)	0	0(***)	20	20(100)	0.6				
66	30	30(100)	27	27(100)	9	9(100)	3	3(100)	69	69(100)	2.0				
72	177	177(100)	385	385(100)	269	269(100)	201	201(100)	1032	1032(100)	30.7				
73	57	57(100)	113	113(100)	78	78(100)	44	44(100)	292	292(100)	8.7				
84	0	0(***)	19	19(100)	27	27(100)	30	30(100)	76	76(100)	2.3				
TOTAL	981	981(100)	1245	1245(100)	724	724(100)	417	417(100)	3367	3367(100)	100.0				

FIGURE 20 (continued)

CATEGORY 2 SKILLS:												
SKL	LEVEL 3		LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF TOTAL U	
	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)	--A--	--B-- (%)
67	17	16(94)	24	24(100)	19	18(95)	2	2(100)	62	60(97)	3.5	3.5
68	41	41(100)	50	49(98)	20	19(95)	3	3(100)	114	112(98)	6.6	6.6
69	75	74(97)	361	354(98)	196	192(98)	120	117(98)	752	737(98)	43.3	43.3
70	1	1(100)	205	201(98)	161	158(98)	96	94(98)	463	454(98)	26.6	26.6
76	0	0(000)	17	17(100)	3	3(100)	2	2(100)	22	22(100)	1.3	1.3
85	33	33(100)	142	139(98)	81	79(98)	69	68(99)	325	319(98)	18.7	18.7
TOTAL	167	165(99)	799	784(98)	480	469(98)	292	286(98)	1738	1704(98)	100.0	100.0

FIGURE 20 (continued)

CATEGORY J SKILLS:												
LEVEL 3												
SKL	--A--	--B--	(%)	LEVEL 5		LEVEL 7		LEVEL 9		TOTAL		PCT OF
				--A--	--B--	--A--	--B--	--A--	--B--	--A--	--B--	TOTAL B
71	0	0(0.0)	17(94)	18	17(94)	2	2(100)	1	1(100)	21	20(95)	0.6
74	23	23(100)	127	127	121(95)	62	60(97)	30	29(97)	242	233(96)	7.4
75	50	48(96)	108	108	103(95)	64	62(97)	65	62(95)	287	275(96)	8.7
77	7	6(86)	57	57	55(96)	34	33(97)	25	24(96)	123	118(96)	3.7
78	26	25(96)	94	94	90(96)	57	54(95)	51	49(96)	228	218(96)	6.9
79	0	0(0.0)	20	20	20(100)	4	4(100)	2	2(100)	26	26(100)	0.8
80	31	29(94)	99	99	95(96)	65	63(97)	87	83(95)	282	270(96)	8.5
81	0	0(0.0)	1	1	1(100)	1	1(100)	17	16(94)	19	18(95)	0.6
82	48	47(98)	113	113	108(96)	53	51(96)	41	39(95)	255	245(96)	7.8
83	25	24(95)	119	119	114(96)	99	95(97)	110	105(95)	353	338(96)	10.7
86	20	19(95)	35	35	34(97)	25	24(96)	58	55(97)	138	133(96)	4.2
87	24	23(96)	47	47	45(96)	53	60(95)	30	29(97)	164	157(96)	5.0
88	0	0(0.0)	121	121	116(96)	206	198(96)	120	115(96)	447	429(96)	13.6
89	125	119(95)	192	192	184(96)	104	100(96)	53	51(96)	474	454(96)	14.4
90	0	0(0.0)	102	102	98(96)	47	45(96)	40	38(95)	189	181(96)	5.7
91	0	0(0.0)	23	23	22(96)	21	21(100)	4	3(75)	48	46(96)	1.5
TOTAL	379	363(96)	1276	1276	1223(96)	907	873(96)	734	702(96)	3296	3161(96)	100.0
GRAND TOTAL												
	1527	1509(99)	3320	3320	3252(98)	2111	2066(98)	1443	1405(97)	8401	8232(98)	100.0

FIGURE 21: S3 Promotion Plan for Year 2

• • • SCENARIO S3 - REDUCED YES • • •

SKILL -1 UPGRADE PLAN FOR YEAR 2

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	TOTAL
PROJECTION	-	1369	3205	1833	1370	9304
PROMOTABLES	-	1369	1324	1115	1042	6377
AUTHORIZATION	-	1509	3252	2066	1405	8232
PROMOTION RATES	0.298	0.233	0.202	0.031	0.0	-
	-----	-----	-----	-----	-----	-----
VACANCIES	455	140	47	233	35	910
UPGRADE DEMANDS	455	455	315	268	35	-

••• PROMOTION FAILURE INTO LEVEL 5 REQ= 5341 ELIGIBLES 4242

SKILL -2 UPGRADE PLAN FOR YEAR 2

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	TOTAL
PROJECTION	-	4242	15399	15499	1760	41771
PROMOTABLES	-	4242	15399	15472	1760	41744
AUTHORIZATION	-	4767	20790	16207	2002	43766
PROMOTION RATES	0.479	1.	0.061	0.015	0.0	-
	-----	-----	-----	-----	-----	-----
VACANCIES	4767	525	5391	708	242	11633
UPGRADE DEMANDS	4767	4767	4242	950	242	-

FIGURE 22: S3 Aggregate Results for Year 2

YEAR 2: AGGREGATE RESULTS

		LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
		CHNG	POP	CHNG	POP	CHNG	POP
SKILL 1							
ENTERING	-	6	6	-	30	-	76
- SEPS	0	6	1	1	29	0	71
(EXP)	0	6	5	3	19	0	71
- UPG OUT	4	2	5	1	28	0	60
+ UPG IN	0	2	4	5	29	1	71
+ TT IN	4	6	4	0	29	0	75
NET RESULT	0	6	-2	1	23	-1	75
AUTHORIZED	0	0	6	22	31	12	71
SKILL 2							
ENTERING	-	12	11	-	48	-	104
- SEPS	0	12	1	2	46	0	94
(EXP)	0	12	10	3	18	0	98
- UPG OUT	8	4	10	1	45	0	78
+ UPG IN	0	4	8	10	46	1	98
+ TT IN	8	12	0	0	46	0	106
NET RESULT	0	12	-3	6	27	1	106
AUTHORIZED	0	0	12	21	49	12	94
SKILL 3							
ENTERING	-	14	14	-	156	-	271
- SEPS	0	14	2	9	147	4	245
(EXP)	0	14	12	11	48	4	245
- UPG OUT	10	4	12	2	145	0	218
+ UPG IN	0	4	10	12	148	2	245
+ TT IN	10	14	0	0	148	0	255
NET RESULT	0	14	-4	-8	148	-2	255
AUTHORIZED	0	0	14	67	165	26	274

FIGURE 22 (continued)

SKILL 4											
ENTERING	-	355	-	354	-	611	-	549	-	89	-
- SEPS	0	355	46	308	116	495	35	514	14	75	211
(EXP)	0	355	46	308	116	495	35	514	14	75	211
- UPG OUT	246	109	308	0	31	464	8	506	0	75	593
+ UPG IN	0	109	246	246	308	772	31	537	8	83	593
+ TT IN	246	355	0	246	0	772	0	537	0	83	246
NET RESULT	0	355	-108	246	161	772	-12	537	-6	83	35
AUTHORIZED	0	0		349		532		550		93	1524
SKILL 5											
ENTERING	-	19	-	19	-	20	-	44	-	2	-
- SEPS	0	19	2	17	5	23	2	42	0	2	9
(EXP)	0	19	2	17	5	23	2	42	0	2	9
- UPG OUT	13	6	17	0	1	22	1	41	0	2	32
+ UPG IN	0	6	13	13	17	39	1	42	1	3	32
- AT OUT	0	6	0	13	11	28	0	42	1	2	12
+ TT IN	13	19	0	13	0	26	0	42	0	2	13
NET RESULT	0	19	-6	13	0	28	-2	42	0	2	-8
AUTHORIZED	0	0		19		28		43		2	92
SKILL 6											
ENTERING	-	151	-	151	-	455	-	558	-	85	-
- SEPS	0	151	19	132	84	371	35	523	14	71	152
(EXP)	0	151	19	132	84	371	35	523	14	71	152
- UPG OUT	105	46	132	0	23	348	8	515	0	71	268
+ UPG IN	0	46	105	105	132	480	23	538	8	79	268
+ TT IN	105	151	0	105	0	480	0	538	0	79	105
NET RESULT	0	151	-46	105	25	480	-20	538	-6	79	-47
AUTHORIZED	0	0		148		476		563		89	1276
SKILL 7											
ENTERING	-	23	-	23	-	63	-	92	-	18	-
- SEPS	0	23	3	20	11	52	5	87	0	18	19
(EXP)	0	23	3	20	11	52	5	87	0	18	19
- UPG OUT	16	7	20	0	3	49	1	86	0	18	40
+ UPG IN	0	7	16	16	20	69	3	89	1	19	40
+ TT IN	16	23	0	16	0	69	0	89	0	19	16
NET RESULT	0	23	-7	16	6	69	-3	89	1	19	-3
AUTHORIZED	0	0		23		66		93		17	199

FIGURE 22 (continued)

SKILL 8											
ENTERING	-	64	-	63	-	152	-	197	-	31	507
- SCPS	0	64	8	55	28	124	11	186	4	27	51
(EXP)	0	64	8	55	28	124	11	186	4	27	51
- UPG OUT	44	20	55	0	8	116	3	183	0	27	110
+ UPG IN	0	20	44	44	55	171	8	191	3	30	110
+ TT IN	44	64	0	44	0	171	0	191	0	30	44
NET RESULT	0	64	-19	44	19	171	-6	191	-1	30	-7
AUTHORIZED	0	0		63		148		199		31	441

SKILL 9											
ENTERING	-	31	-	32	-	136	-	149	-	22	370
- SCPS	0	31	4	28	25	111	9	140	2	20	40
(EXP)	0	31	4	28	25	111	9	140	2	20	40
- UPG OUT	22	9	28	0	7	104	2	138	0	20	59
+ UPG IN	0	9	22	22	28	132	7	145	2	22	59
+ TT IN	22	31	0	22	0	132	0	145	0	22	22
NET RESULT	0	31	-10	22	-4	132	-4	145	0	22	-18
AUTHORIZED	0	0		30		153		148		20	351

SKILL 10											
ENTERING	-	67	-	67	-	525	-	548	-	45	1252
- SCPS	0	67	9	58	97	428	35	513	7	38	148
(EXP)	0	67	9	58	97	428	35	513	7	38	148
- UPG OUT	47	20	58	0	26	402	8	505	0	38	139
+ UPG IN	0	20	47	47	58	460	26	531	8	46	139
+ TT IN	47	67	0	47	1	461	0	531	0	46	48
NET RESULT	0	67	-20	47	-64	461	-17	531	1	46	-100
AUTHORIZED	0	0		66		628		544		40	1278

SKILL 11											
ENTERING	-	0	-	0	-	12	-	30	-	1	43
- SCPS	0	0	0	0	1	11	1	29	0	1	2
(EXP)	0	0	0	0	1	11	1	29	0	1	2
- UPG OUT	0	0	0	0	1	10	1	28	0	1	2
+ UPG IN	0	0	0	0	0	10	1	29	1	2	2
NET RESULT	0	0	0	0	-2	10	-1	29	1	2	-2
AUTHORIZED	0	0		0		16		30		0	46

FIGURE 22 (continued)

SKILL 12											
ENTERING	-	30	-	31	-	179	-	210	-	18	468
- SEPS	0	30	4	27	32	147	12	198	1	17	419
(EXP)	0	30	4	27	32	147	12	198	1	17	419
- UPG OUT	21	9	27	0	9	138	3	195	0	17	359
+ UPG IN	0	9	21	21	27	165	9	204	3	20	419
+ TT IN	21	30	0	21	0	165	0	204	0	20	440
NET RESULT	0	30	-10	21	-14	165	-6	204	2	20	440
AUTHORIZED	0	0		30		209		204		15	462
SKILL 13											
ENTERING	-	76	-	76	-	379	-	390	-	56	977
- SEPS	0	76	10	66	70	309	24	366	8	48	865
(EXP)	0	76	10	66	70	309	24	366	8	48	865
- UPG OUT	53	23	66	0	19	290	6	360	0	48	721
+ UPG IN	0	23	53	53	66	356	19	379	6	54	865
+ TT IN	53	76	0	53	1	357	0	379	0	54	919
NET RESULT	0	76	-23	53	-22	357	-11	379	-2	54	919
AUTHORIZED	0	0		75		432		387		59	953
SKILL 14											
ENTERING	-	16	-	16	-	54	-	51	-	1	138
- SEPS	0	16	2	14	10	44	2	49	0	1	14
(EXP)	0	16	2	14	10	44	2	49	0	1	14
- UPG OUT	11	5	14	0	3	41	1	48	0	1	29
+ UPG IN	0	5	11	11	14	55	3	51	1	2	29
+ TT IN	11	16	0	11	0	55	0	51	0	2	11
NET RESULT	0	16	-5	11	1	55	0	51	1	2	135
AUTHORIZED	0	0		16		58		48	-3	0	122
SKILL 15											
ENTERING	-	8	-	9	-	118	-	163	-	23	321
- SEPS	0	8	1	8	21	97	9	154	2	21	288
(EXP)	0	8	1	8	21	97	9	154	2	21	288
- UPG OUT	6	2	8	0	6	91	2	152	0	21	22
+ UPG IN	0	2	6	6	8	99	6	158	2	23	266
+ TT IN	6	8	0	6	0	99	0	158	0	23	288
NET RESULT	0	8	-3	6	-19	99	-5	158	0	23	294
AUTHORIZED	0	0		8		143		162		20	333

FIGURE 22 (continued)

SKILL 16											
ENTERING	-	33	-	37	-	187	-	199	-	23	-
- SEPS	0	38	5	32	37	150	11	188	2	21	55
(EXP)	0	38	5	32	37	150	11	188	2	21	55
- UPG OUT	26	12	32	0	9	141	3	185	0	21	70
+ UPG IN	0	12	26	26	32	173	9	194	3	24	70
+ TT IN	26	38	0	26	0	173	0	194	0	24	26
NET RESULT	0	38	-11	26	-14	173	-5	194	1	24	-29
AUTHORIZED		0		37		214		197		20	468

SKILL 17											
ENTERING	-	6	-	6	-	24	-	16	-	0	-
- SEPS	0	6	1	5	3	21	0	16	0	0	4
(EXP)	0	6	1	5	3	21	0	16	0	0	4
- UPG OUT	4	2	5	0	1	20	0	16	0	0	10
+ UPG IN	0	2	4	4	5	25	1	17	0	0	10
+ TT IN	4	6	0	4	0	25	0	17	0	0	4
NET RESULT	0	6	-2	4	1	25	1	17	0	0	0
AUTHORIZED		0		6		25		16		0	47

SKILL 18											
ENTERING	-	9	-	9	-	62	-	55	-	1	-
- SEPS	0	9	1	8	12	50	3	52	0	1	16
(EXP)	0	9	1	8	12	50	3	52	0	1	16
- UPG OUT	6	3	8	0	3	47	1	51	0	1	18
+ UPG IN	0	3	6	6	8	55	3	54	1	2	18
+ TT IN	6	9	0	6	0	55	0	54	0	2	6
NET RESULT	0	9	-3	6	-7	55	-1	54	1	2	-10
AUTHORIZED		0		9		73		55		0	137

SKILL 19											
ENTERING	-	9	-	9	-	36	-	28	-	8	-
- SEPS	0	9	1	8	6	30	1	27	0	8	8
(EXP)	0	9	1	8	6	30	1	27	0	8	8
- UPG OUT	6	3	8	0	2	28	0	27	0	8	16
+ UPG IN	0	3	6	6	8	36	2	29	0	8	16
+ TT IN	6	9	0	6	0	36	0	29	0	8	6
NET RESULT	0	9	-3	6	0	36	1	29	0	8	-2
AUTHORIZED		0		9		40		27		8	84

FIGURE 22 (continued)

SKILL 20											
ENTERING	-	7	-	7	-	106	-	110	-	5	213
- SEPS	0	7	1	6	19	87	4	84	0	5	189
(EXP)	0	7	1	6	19	87	4	84	0	5	189
- UPG OUT	5	2	6	0	5	82	1	83	0	5	172
+ UPG IN	0	2	5	5	6	88	5	88	1	6	189
+ TT IN	5	7	0	5	0	88	0	88	0	6	194
NET RESULT	0	7	-2	5	-18	88	0	88	1	6	194
AUTHORIZED	0	0	7	7	132	132	4	85			228
SKILL 21											
ENTERING	-	75	-	75	-	300	-	188	-	28	666
- SEPS	0	75	10	65	54	246	10	178	4	24	588
(EXP)	0	75	10	65	54	246	10	178	4	24	588
- UPG OUT	52	23	65	0	15	231	3	175	0	24	453
+ UPG IN	0	23	52	52	65	296	15	190	3	27	588
+ TT IN	52	75	0	52	0	296	0	190	0	27	640
NET RESULT	0	75	-23	52	-4	296	2	190	-1	27	640
AUTHORIZED	0	0	75	75	338	338		181		28	622
SKILL 22											
ENTERING	-	90	-	90	-	590	-	625	-	58	1453
- SEPS	0	90	12	78	110	480	40	585	9	49	1282
(EXP)	0	90	12	78	110	480	40	585	9	49	1282
- UPG OUT	63	27	78	0	30	450	9	576	0	49	1102
+ UPG IN	0	27	63	63	78	528	30	606	9	58	1282
+ TT IN	63	90	0	63	1	529	0	606	0	58	1346
NET RESULT	0	90	-27	63	-61	529	-19	606	0	58	1346
AUTHORIZED	0	0	90	90	708	708		633		58	1489
SKILL 23											
ENTERING	-	1	-	1	-	7	-	9	-	0	18
- SEPS	0	1	0	1	1	6	0	9	0	0	17
(EXP)	0	1	0	1	1	6	0	9	0	0	17
- UPG OUT	1	0	1	0	0	6	0	9	0	0	15
+ UPG IN	0	0	1	1	1	7	0	9	0	0	17
+ TT IN	1	1	0	1	0	7	0	9	0	0	18
NET RESULT	0	1	0	1	0	7	0	9	0	0	18
AUTHORIZED	0	0	1	1	7	7		9		0	17

FIGURE 22 (continued)

SKILL 24														
ENTERING	-	1	-	1	-	7	-	11	-	0	-	0	-	20
- SEPS	0	1	0	1	1	6	0	11	0	0	0	0	1	19
(EXP)	0	1	0	1	1	6	0	11	0	0	0	0	1	19
- UPG OUT	1	0	1	0	0	6	0	11	0	0	0	0	2	17
+ UPG IN	0	0	1	1	1	7	0	11	0	0	0	0	2	19
+ TT IN	1	1	0	1	0	7	0	11	0	0	0	0	1	20
NET RESULT	0	1	0	1	0	7	0	11	0	0	0	0	0	20
AUTHORIZED	0	0	1	1	8			11						20
SKILL 25														
ENTERING	-	2	-	2	-	5	-	12	-	0	-	0	-	21
- UPG OUT	1	1	2	0	0	5	0	12	0	0	0	0	3	18
+ UPG IN	0	1	1	1	2	7	0	12	0	0	0	0	3	21
- XT OUT	0	1	0	1	2	5	0	12	0	0	0	0	2	19
+ TT IN	1	2	0	1	0	5	0	12	0	0	0	0	1	20
NET RESULT	0	2	-1	1	0	5	0	12	0	0	0	0	-1	20
AUTHORIZED	0	0	2	2	5			12						19
SKILL 26														
ENTERING	-	77	-	77	-	357	-	293	-	27	-	27	-	831
- SEPS	0	77	10	67	68	289	17	276	4	23	4	23	99	732
(EXP)	0	77	10	67	68	289	17	276	4	23	4	23	99	732
- UPG OUT	53	24	67	0	18	271	4	272	0	23	0	23	142	590
+ UPG IN	0	24	53	53	67	338	18	290	4	27	4	27	142	732
+ TT IN	53	77	0	53	0	338	0	290	0	27	0	27	53	745
NET RESULT	0	77	-24	53	-19	338	-3	290	0	27	-46	27	-46	745
AUTHORIZED	0	0		76	434			286		24				790
SKILL 27														
ENTERING	-	290	-	289	-	1488	-	1104	-	98	-	98	-	3269
- SEPS	0	290	37	252	275	1213	75	1029	15	83	15	83	402	2867
(EXP)	0	290	37	252	275	1213	75	1029	15	83	15	83	402	2867
- UPG OUT	201	89	252	0	75	1138	16	1013	0	83	0	83	544	2323
+ UPG IN	0	89	201	201	252	1390	75	1088	16	99	16	99	544	2067
+ TT IN	201	290	0	201	6	1396	0	1088	1	100	1	100	208	3075
NET RESULT	0	290	-88	201	-92	1396	-16	1088	2	100	-194	100	-194	3075
AUTHORIZED	0	0		290	1730			1087		94				3201

FIGURE 22 (continued)

SKILL 28												
ENTERING	-	24	-	25	-	137	-	124	-	23	-	333
- SEPS	0	24	3	22	25	112	8	116	3	20	39	294
(EXPI	0	24	3	22	25	112	8	116	3	20	39	294
- UPG OUT	17	7	22	0	7	105	2	114	0	20	48	246
+ UPG IN	0	7	17	17	22	127	7	121	2	22	48	294
+ TT IN	17	24	0	17	0	127	0	121	0	22	17	311
NET RESULT												
AUTHORIZED	0	24	-8	17	-10	127	-3	121	-1	22	-22	311
		0		24		162		122		23		331
SKILL 29												
ENTERING	-	171	-	171	-	1005	-	896	-	160	-	2403
- SEPS	0	171	22	149	187	818	60	836	24	136	293	2110
(EXPI	0	171	22	149	187	818	60	836	24	136	293	2110
- UPG OUT	119	52	149	0	50	768	13	823	0	136	331	1779
+ UPG IN	0	52	119	119	149	917	50	873	13	149	331	2110
+ TT IN	119	171	0	119	3	920	0	873	0	149	122	2232
NET RESULT												
AUTHORIZED	0	171	-52	119	-85	920	-23	873	-11	149	-171	2232
		0		171		1192		899		167		2429
SKILL 30												
ENTERING	-	58	-	57	-	296	-	250	-	4	-	665
- SEPS	0	58	7	50	54	242	14	236	0	4	75	590
(EXPI	0	58	7	50	54	242	14	236	0	4	75	590
- UPG OUT	40	18	50	0	15	227	4	232	0	4	109	481
+ UPG IN	0	18	40	40	50	277	15	247	4	8	109	590
+ TT IN	40	58	0	40	0	277	0	247	0	8	40	630
NET RESULT												
AUTHORIZED	0	58	-17	40	-19	277	-3	247	4	8	-35	630
		0		58		344		246		0		648
SKILL 31												
ENTERING	-	3	-	3	-	19	-	25	-	36	-	86
- SEPS	0	3	0	3	3	16	1	24	4	32	8	78
(EXPI	0	3	0	3	3	16	1	24	4	32	8	78
- UPG OUT	2	1	3	0	1	15	0	24	0	32	6	72
+ UPG IN	0	1	2	2	3	18	1	25	0	32	6	78
+ TT IN	2	3	0	2	0	18	0	25	0	32	2	80
NET RESULT												
AUTHORIZED	0	3	-1	2	-1	18	0	25	-4	32	-6	80
		0		3		71		25		40		89

FIGURE 22 (continued)

SKILL J2												
ENTERING	-	119	-	120	-	404	-	263	-	34	-	940
- SEPS	0	119	15	105	76	328	14	249	5	29	110	830
(EXP)	0	119	15	105	76	328	14	249	5	29	110	830
- UPG OUT	83	36	105	0	20	308	4	245	0	29	212	618
+ UPG IN	0	36	83	83	105	413	20	265	4	33	212	830
+ TT IN	83	119	0	83	0	413	0	265	0	33	83	913
NET RESULT	0	119	-37	83	9	413	2	265	-1	33	-27	913
AUTHORIZED	0	0	0	119	0	441	0	254	0	33	0	847
SKILL J3												
ENTERING	-	195	-	194	-	987	-	538	-	92	-	2006
- SEPS	0	195	25	169	185	802	33	505	14	78	257	1749
(EXP)	0	195	25	169	185	802	33	505	14	78	257	1749
- UPG OUT	135	60	169	0	50	752	8	497	0	78	362	1387
+ UPG IN	0	60	135	135	169	921	50	547	8	86	362	1749
+ TT IN	135	195	0	135	1	922	0	547	0	86	136	1885
NET RESULT	0	195	-59	135	-65	922	9	547	-6	86	-121	1885
AUTHORIZED	0	0	0	195	0	1151	0	508	0	98	0	1952
SKILL J4												
ENTERING	-	65	-	65	-	217	-	226	-	25	-	598
- SEPS	0	65	8	57	41	176	14	212	3	22	66	532
(EXP)	0	65	8	57	41	176	14	212	3	22	66	532
- UPG OUT	45	20	57	0	11	165	3	209	0	22	116	416
+ UPG IN	0	20	45	45	57	222	11	220	3	25	116	532
+ TT IN	45	65	0	45	0	222	0	220	0	25	45	577
NET RESULT	0	65	-20	45	5	222	-6	220	0	25	-21	577
AUTHORIZED	0	0	0	63	0	229	0	220	0	23	0	535
SKILL J5												
ENTERING	-	51	-	51	-	164	-	319	-	51	-	636
- SEPS	0	51	7	44	31	133	18	301	8	43	64	572
(EXP)	0	51	7	44	31	133	18	301	8	43	64	572
- UPG OUT	35	16	44	0	8	125	5	296	0	43	92	480
+ UPG IN	0	16	35	35	44	169	6	304	5	48	92	572
+ TT IN	35	51	0	35	0	169	0	304	0	48	35	607
NET RESULT	0	51	-16	35	5	169	-15	304	-3	48	-29	607
AUTHORIZED	0	0	0	49	0	169	0	321	0	53	0	592

FIGURE 22 (continued)

SKILL 36												
ENTERING	-	77	-	77	-	322	-	247	-	23	-	746
- SEPS	0	77	10	67	59	263	14	233	2	21	85	661
(EXP)	0	77	10	67	59	263	14	233	2	21	85	661
- UPG OUT	53	24	67	0	16	247	4	229	0	21	140	521
+ UPG IN	0	24	53	53	67	314	16	245	4	25	140	661
+ IT IN	53	77	0	53	0	314	0	245	0	25	53	714
NET RESULT	0	77	-24	53	-8	314	-2	245	2	25	-32	714
AUTHORIZED	0			77		366		241		19		703

[illegible]

SKILL JO													
ENTERING		- 184		- 184		- 486		- 467		- 58		- 1379	
-	SEPS	0	184	24	160	91	395	28	439	9	49	152	1227
	EXP	0	184	24	160	91	395	28	439	9	49	152	1227
-	UPG OUT	128	56	160	0	24	371	7	432	0	49	319	908
+	UPG IN	0	56	128	128	160	531	24	456	7	56	319	1227
+	TT IN	128	184	0	128	0	531	0	456	0	56	128	1355

NET RESULT		0	184	-56	128	45	531	-11	456	-2	56	-24	1355
AUTHORIZED			0		178		484		458		59		1179

SKILL 39	ENTERING	92	12	92	58	312	178	15	689
- SEPS	0	92	12	80	58	254	169	0	610
(EXP)	0	92	12	80	58	254	169	0	610
- UPG OUT	64	28	80	0	16	238	166	0	447
+ UPG IN	0	20	64	64	80	318	142	3	610
+ TF IN	64	42	0	64	0	318	182	0	674
NET RESULT	0	92	-28	64	6	318	182	3	674
AUTHORIZED	0	0		89		329	145	12	595

FIGURE 22 (continued)

SKILL 40												
ENTERING	-	214	-	214	-	853	-	560	-	37	-	1878
- SEPS	0	214	28	186	161	692	35	525	6	31	230	1648
(EXP)	0	214	28	186	161	692	35	525	6	31	230	1648
- UPG OUT	149	65	186	0	43	649	8	517	0	31	386	1262
+ UPG IN	0	65	149	149	186	835	43	560	8	39	386	1648
+ TT IN	149	214	0	149	0	835	0	560	0	39	149	1797
NET RESULT	0	214	-65	149	-18	835	0	560	2	39	-81	1797
AUTHORIZED		0		207		933		526		31		1697
SKILL 41												
ENTERING	-	54	-	55	-	278	-	230	-	14	-	631
- SEPS	0	54	7	48	51	227	14	216	0	14	72	559
(EXP)	0	54	7	48	51	227	14	216	0	14	72	559
- UPG OUT	38	16	48	0	14	213	3	213	0	14	103	456
+ UPG IN	0	16	38	38	48	261	14	227	3	17	103	559
+ TT IN	38	54	0	38	0	261	0	227	0	17	38	597
NET RESULT	0	54	-17	38	-17	261	-3	427	3	17	-34	597
AUTHORIZED		0		52		311		219		10		592
SKILL 42												
ENTERING	-	66	-	66	-	357	-	246	-	27	-	762
- SEPS	0	66	9	57	67	290	14	232	4	23	94	668
(EXP)	0	66	9	57	67	290	14	232	4	23	94	668
- UPG OUT	46	20	57	0	18	272	4	228	0	23	125	543
+ UPG IN	0	20	46	46	57	329	18	246	4	27	125	668
+ TT IN	46	66	0	46	0	329	0	246	0	27	46	714
NET RESULT	0	66	-20	46	-28	329	0	246	0	27	-48	714
AUTHORIZED		0		64		403		229		24		720
SKILL 43												
ENTERING	-	345	-	346	-	1230	-	1294	-	130	-	3345
- SEPS	0	345	45	301	230	1000	88	1206	20	110	383	2962
(EXP)	0	345	45	301	230	1000	88	1206	20	110	383	2962
- UPG OUT	240	105	301	0	62	938	19	1187	0	110	622	2340
+ UPG IN	0	105	240	240	301	1239	62	1249	19	129	622	2962
+ TT IN	240	345	0	240	0	1239	0	1249	0	129	240	3202
NET RESULT	0	345	-106	240	7	1239	-45	1249	-1	129	-143	3202
AUTHORIZED		0		334		1315		1275		124		3048

FIGURE 22 (continued)

SKILL 44													
ENTERING	-	2	-	2	-	34	-	89	-	6	-	133	
- SEPS	0	2	0	2	6	28	5	84	0	6	11	122	
(EXP)	0	2	0	2	6	28	5	84	0	6	11	122	
- UPG OUT	1	1	2	0	2	26	1	83	0	6	6	116	
+ UPG IN	0	1	1	1	2	28	2	85	1	7	6	122	
+ TT IN	1	2	0	1	0	28	0	85	0	7	1	123	
NET RESULT	0	2	-1	1	-6	28	-4	85	1	7	-10	123	
AUTHORIZED	0	0	2	2		43		90		5		140	
SKILL 45													
ENTERING	-	73	-	74	-	209	-	218	-	31	-	605	
- SEPS	0	73	10	64	42	167	12	206	4	27	68	537	
(EXP)	0	73	10	64	42	167	12	206	4	27	68	537	
- UPG OUT	51	22	64	0	10	157	3	203	0	27	128	409	
+ UPG IN	0	22	51	51	64	221	10	213	3	30	128	537	
+ TT IN	51	73	0	51	0	221	0	213	0	30	51	588	
NET RESULT	0	73	-23	51	12	221	-5	213	-1	30	-17	588	
AUTHORIZED	0	0	70	70		216		211		30		527	
SKILL 46													
ENTERING	-	430	-	430	-	1436	-	1405	-	143	-	3844	
- SEPS	0	430	55	375	269	1167	97	1308	21	122	442	3402	
(EXP)	0	430	55	375	269	1167	97	1308	21	122	442	3402	
- UPG OUT	298	132	375	0	72	1095	20	1288	0	122	765	2637	
+ UPG IN	0	132	298	298	375	1470	72	1360	20	142	765	3402	
+ TT IN	298	430	0	298	0	1470	0	1360	0	142	298	3700	
NET RESULT	0	430	-132	298	34	1470	-45	1360	-1	142	-144	3700	
AUTHORIZED	0	0	416	416		1515		1378		137		3446	
SKILL 47													
ENTERING	-	130	-	130	-	453	-	742	-	193	-	1648	
- SEPS	0	130	17	113	85	368	52	690	29	164	183	1465	
(EXP)	0	130	17	113	85	368	52	690	29	164	183	1465	
- UPG OUT	90	40	113	0	23	345	11	679	0	164	237	1228	
+ UPG IN	0	40	90	90	113	458	23	702	11	175	237	1465	
+ TT IN	90	130	0	90	0	458	0	702	0	175	90	1555	
NET RESULT	0	130	-40	90	5	453	-40	702	-18	175	-93	1555	
AUTHORIZED	0	0	126	126		482		751		203		1562	

FIGURE 22 (continued)

SKILL 48												
ENTERING	-	54	-	55	-	62	-	269	-	34	-	474
- SEPS	0	54	7	48	13	49	17	252	5	29	42	432
(EXP)	0	54	7	48	13	49	17	252	5	29	42	432
- UPG OUT	38	16	48	0	3	46	4	248	0	29	93	339
+ UPG IN	0	16	38	38	48	94	3	251	4	33	93	432
+ TT IN	38	54	0	38	0	94	0	251	0	33	38	470
NET RESULT	0	54	-17	38	32	94	-18	251	-1	33	-4	470
AUTHORIZED	0	0		54		43		287		33		417
SKILL 49												
ENTERING	-	466	-	465	-	1816	-	787	-	66	-	3600
- SEPS	0	466	60	405	339	1477	53	734	10	56	462	3138
(EXP)	0	466	60	405	339	1477	53	734	10	56	462	3138
- UPG OUT	323	143	405	0	91	1306	12	722	0	56	831	2307
+ UPG IN	0	143	323	323	405	1791	91	813	12	68	831	3138
+ TT IN	323	466	0	323	0	1791	0	813	0	68	323	3461
NET RESULT	0	466	-142	323	-25	1791	26	813	2	68	-139	3461
AUTHORIZED	0	0		450		1973		702		63		3188
SKILL 50												
ENTERING	-	347	-	347	-	1259	-	847	-	105	-	2905
- SEPS	0	347	45	302	234	1025	58	789	17	88	354	2551
(EXP)	0	347	45	302	234	1025	58	789	17	88	354	2551
- UPG OUT	241	106	302	0	63	962	12	777	0	88	618	1933
+ UPG IN	0	106	241	241	302	1264	63	840	12	100	618	2551
+ TT IN	241	347	0	241	0	1264	0	840	0	100	241	2792
NET RESULT	0	347	-106	241	5	1264	-7	840	-5	100	-113	2792
AUTHORIZED	0	0		335		1349		806		102		2592
SKILL 51												
ENTERING	-	15	-	14	-	53	-	45	-	6	-	133
- SEPS	0	15	2	12	10	43	2	43	0	6	14	119
(EXP)	0	15	2	12	10	43	2	43	0	6	14	119
- UPG OUT	10	5	12	0	3	40	1	42	0	6	26	93
+ UPG IN	0	5	10	10	12	52	3	45	1	7	26	119
+ TT IN	10	15	0	10	0	52	0	45	0	7	10	129
NET RESULT	0	15	-4	10	-1	52	0	45	1	7	-4	129
AUTHORIZED	0	0		15		56		44		5		120

FIGURE 22 (continued)

FIGURE 22 (continued)

SKILL 54										
ENTERING	-	53	-	52	-	66	-	33	-	270
- SEPS	0	53	6	46	2	64	9	32	18	252
(EXP)	0	53	6	46	2	64	9	32	18	252
- UPG OUT	16	37	11	35	4	60	1	32	32	220
+ UPG IN	0	37	16	51	11	71	4	33	32	252
+ TT IN	16	53	0	51	0	71	0	33	16	268
NET RESULT	0	53	-1	51	5	71	-6	33	-2	268
AUTHORIZED	0			53		53		31		211
SKILL 55										
ENTERING	-	124	-	124	-	153	-	14	-	450
- SEPS	0	124	13	111	6	147	3	14	22	428
(EXP)	0	124	13	111	6	147	3	14	22	428
- UPG OUT	37	67	26	85	10	137	1	14	74	354
+ UPG IN	0	87	37	122	26	163	10	15	74	428
+ TT IN	37	124	0	122	0	163	0	15	37	465
NET RESULT	0	124	-2	122	10	163	6	15	15	465
AUTHORIZED	0			124		123		13		286
SKILL 56										
ENTERING	-	24	-	24	-	30	-	3	-	88
- SEPS	0	24	2	22	0	30	0	3	2	86
(EXP)	0	24	2	22	0	30	0	3	2	86
- UPG OUT	7	17	5	17	2	28	0	3	14	72
+ UPG IN	0	17	7	24	5	33	2	3	14	86
+ TT IN	7	24	0	24	0	33	0	3	7	93
NET RESULT	0	24	0	24	3	33	2	3	5	93
AUTHORIZED	0			24		23		3		55
SKILL 57										
ENTERING	-	40	-	40	-	50	-	24	-	204
- SEPS	0	40	4	36	0	50	7	24	11	193
(EXP)	0	40	4	36	0	50	7	24	11	193
- UPG OUT	12	28	8	28	3	47	1	24	24	169
+ UPG IN	0	28	12	40	8	55	3	25	24	193
+ TT IN	12	40	0	40	0	55	0	25	12	205
NET RESULT	0	40	0	40	5	55	-5	25	1	205
AUTHORIZED	0			40		40		23		159

FIGURE 22 (continued)

SKILL 58													
ENTERING	-	44	-	43	-	53	-	18	-	7	-	165	
- SEPS	0	44	4	39	0	53	2	16	0	7	6	159	
(EXP)	0	44	4	39	0	53	2	16	0	7	6	159	
- UPG OUT	13	31	9	30	3	50	0	16	0	7	25	134	
+ UPG IN	0	31	13	43	9	59	3	19	0	7	25	159	
+ TT IN	13	44	0	43	0	59	0	19	0	7	13	172	
NET RESULT	0	44	0	43	6	59	1	19	0	7	7	172	
AUTHORIZED	0	0		44		41		15		7		107	
SKILL 59													
ENTERING	-	45	-	45	-	55	-	41	-	7	-	193	
- SEPS	0	45	5	40	1	54	6	35	0	7	12	161	
(EXP)	0	45	5	40	1	54	6	35	0	7	12	161	
- UPG OUT	13	32	9	31	4	50	1	34	0	7	27	154	
+ UPG IN	0	32	13	44	9	59	4	38	1	8	27	181	
+ TT IN	13	45	0	44	0	59	0	38	0	8	13	194	
NET RESULT	0	45	-1	44	4	59	-3	38	1	8	1	194	
AUTHORIZED	0	0		45		45		42		6		138	
SKILL 60													
ENTERING	-	32	-	32	-	37	-	26	-	5	-	132	
- SEPS	0	32	3	29	0	37	3	23	0	5	6	126	
(EXP)	0	32	3	29	0	37	3	23	0	5	6	126	
- UPG OUT	10	22	7	22	2	35	1	22	0	5	20	106	
+ UPG IN	0	22	10	32	7	42	2	24	1	6	20	126	
+ TT IN	10	32	0	32	0	42	0	24	0	6	10	136	
NET RESULT	0	32	0	32	5	42	-2	24	1	6	4	136	
AUTHORIZED	0	0		32		28		28		4		92	
SKILL 61													
ENTERING	-	34	-	34	-	43	-	12	-	4	-	127	
- SEPS	0	34	3	31	0	43	0	12	0	4	3	124	
(EXP)	0	34	3	31	0	43	0	12	0	4	3	124	
- UPG OUT	10	24	7	24	3	40	0	12	0	4	20	104	
+ UPG IN	0	24	10	34	7	47	3	15	0	4	20	174	
+ TT IN	10	34	0	34	0	47	0	15	0	4	10	134	
NET RESULT	0	34	0	34	4	47	3	15	0	4	7	134	
AUTHORIZED	0	0		34		34		0		4		80	

FIGURE 22 (continued)

SKILL 62											
ENTERING	-	57	-	57	-	70	-	16	-	8	-
- SEPS	0	57	7	50	2	68	1	15	0	8	10
(EXP)	0	57	7	50	2	68	1	15	0	8	10
- UPG OUT	17	40	11	39	5	63	0	15	0	8	33
+ UPG IN	0	40	17	56	11	74	5	20	0	8	33
+ TT IN	17	57	0	56	0	74	0	20	0	8	17
NET RESULT	0	57	-1	56	4	74	4	20	0	8	7
AUTHORIZED	0	0	0	57	0	54	0	10	0	8	129
SKILL 63											
ENTERING	-	26	-	26	-	32	-	13	-	0	-
- SEPS	0	26	2	24	0	32	1	12	0	0	3
(EXP)	0	26	2	24	0	32	1	12	0	0	3
- UPG OUT	8	18	6	18	2	30	0	12	0	0	16
+ UPG IN	0	18	8	26	6	36	2	14	0	0	16
+ TT IN	8	26	0	26	0	36	0	14	0	0	8
NET RESULT	0	26	0	26	4	36	1	14	0	0	5
AUTHORIZED	0	0	0	26	0	25	0	10	0	0	61
SKILL 64											
ENTERING	-	37	-	36	-	47	-	13	-	0	-
- SEPS	0	37	3	33	0	47	0	13	0	0	3
(EXP)	0	37	3	33	0	47	0	13	0	0	3
- UPG OUT	11	26	8	25	3	44	0	13	0	0	22
+ UPG IN	0	26	11	36	8	52	3	16	0	0	22
+ TT IN	11	37	0	36	0	52	0	16	0	0	11
NET RESULT	0	37	0	36	5	52	3	16	0	0	8
AUTHORIZED	0	0	0	37	0	36	0	9	0	0	82
SKILL 65											
ENTERING	-	9	-	9	-	12	-	3	-	0	-
- SEPS	0	9	1	8	0	12	0	3	0	0	1
(EXP)	0	9	1	8	0	12	0	3	0	0	1
- UPG OUT	3	6	2	6	1	11	0	3	0	0	6
+ UPG IN	0	6	3	9	2	13	1	4	0	0	6
+ TT IN	3	9	0	9	0	13	0	4	0	0	3
NET RESULT	0	9	0	9	1	13	1	4	0	0	2
AUTHORIZED	0	0	0	9	0	9	0	2	0	0	35

FIGURE 22 (continued)

SKILL 66													
ENTERING	-	30	-	30	-	30	-	30	-	30	-	30	-
- SEPS	0	30	3	27	0	36	0	36	0	12	0	3	111
(EXPI)	0	30	3	27	0	36	0	36	0	12	0	3	108
- UPG OUT	9	21	6	21	2	34	0	34	0	12	0	3	17
+ UPG IN	0	21	9	30	6	40	2	40	2	14	0	3	17
+ TT IN	9	30	0	30	0	40	0	40	0	14	0	3	117
NET RESULT	0	30	0	30	4	40	2	40	2	14	0	3	117
AUTHORIZED	0	30	30	30	27	27	69	69	69	69	69	69	69
SKILL 67													
ENTERING	-	17	-	17	-	27	-	27	-	19	-	3	-
- SEPS	0	17	2	15	0	27	2	27	2	17	0	3	83
(EXPI)	0	17	2	15	0	27	2	27	2	17	0	3	79
- UPG OUT	5	12	3	12	2	25	0	25	0	17	0	3	79
+ UPG IN	0	12	5	17	3	28	2	28	2	19	0	3	10
+ TT IN	5	17	0	17	0	28	0	28	0	19	0	3	84
NET RESULT	0	17	0	17	1	28	0	28	0	19	0	3	84
AUTHORIZED	0	16	16	16	24	24	60	60	60	60	60	60	60
SKILL 68													
ENTERING	-	41	-	41	-	58	-	58	-	23	-	4	-
- SEPS	0	41	4	37	2	56	2	56	2	21	0	4	167
(EXPI)	0	41	4	37	2	56	2	56	2	21	0	4	159
- UPG OUT	12	29	9	28	4	52	0	52	0	21	0	4	159
+ UPG IN	0	29	12	40	9	61	4	61	4	25	0	4	25
+ TT IN	12	41	0	40	0	61	0	61	0	25	0	4	171
NET RESULT	0	41	-1	40	3	61	2	61	2	25	0	4	171
AUTHORIZED	0	41	41	41	49	49	112	112	112	112	112	112	112
SKILL 69													
ENTERING	-	75	-	75	-	316	-	316	-	197	-	118	-
- SEPS	0	75	8	67	16	300	30	300	30	167	6	112	781
(EXPI)	0	75	8	67	16	300	30	300	30	167	6	112	721
- UPG OUT	22	53	15	52	28	272	3	272	3	164	0	112	60
+ UPG IN	0	53	22	74	15	287	28	287	28	192	3	115	68
+ TT IN	22	75	0	74	0	287	0	287	0	192	0	115	721
NET RESULT	0	75	-1	74	-29	287	-5	287	-5	192	-3	115	-38
AUTHORIZED	0	74	74	74	354	354	737	737	737	737	737	737	737

FIGURE 22 (continued)

SKILL 70												
ENTERING	-	1	-	1	-	163	-	153	-	95	-	413
- SEPS	0	1	0	1	10	153	23	130	6	89	39	374
(EXP)	0	1	0	1	10	153	23	130	6	89	39	374
- UPG OUT	0	1	0	1	16	137	3	127	0	89	19	355
+ UPG IN	0	1	0	1	0	137	16	143	3	92	19	374
NET RESULT	0	1	0	1	-26	137	-10	143	-3	92	-39	374
AUTHORIZED	0	0	0	1		201		158		94		454
SKILL 71												
ENTERING	-	0	-	0	-	15	-	4	-	1	-	20
- UPG OUT	0	0	0	0	2	13	0	4	0	1	2	18
+ UPG IN	0	0	0	0	0	13	2	6	0	1	2	20
NET RESULT	0	0	0	0	-2	13	2	6	0	1	0	20
AUTHORIZED	0	0	0	0		17		2		1		20
SKILL 72												
ENTERING	-	177	-	177	-	382	-	259	-	195	-	1190
- SEPS	0	177	19	158	19	363	39	220	14	181	91	1099
(EXP)	0	177	19	158	19	363	39	220	14	181	91	1099
- UPG OUT	53	124	36	122	30	333	4	216	0	181	123	976
+ UPG IN	0	124	53	175	36	369	30	246	4	185	123	1099
+ TT IN	53	177	0	175	0	369	0	246	0	185	53	1152
NET RESULT	0	177	-2	175	-13	369	-13	246	-10	185	-38	1152
AUTHORIZED	0	0		177		385		269		201		1032
SKILL 73												
ENTERING	-	57	-	57	-	116	-	77	-	46	-	353
- SEPS	0	57	7	50	4	112	11	66	3	43	25	328
(EXP)	0	57	7	50	4	112	11	66	3	43	25	328
- UPG OUT	17	40	11	39	9	103	1	65	0	43	38	290
+ UPG IN	0	40	17	56	11	114	9	74	1	44	38	328
+ TT IN	17	57	0	56	0	114	0	74	0	44	17	345
NET RESULT	0	57	-1	56	-2	114	-3	74	-2	44	-8	345
AUTHORIZED	0	0		57		113		78		44		292

FIGURE 22 (continued)

SKILL 74												
ENTERING	-	23	-	23	-	112	-	65	-	32	-	255
- SEPS	0	23	2	21	5	107	7	58	1	31	15	240
(EXP)	0	23	2	21	5	107	7	58	1	31	15	240
- UPG OUT	7	16	5	16	10	97	1	57	0	31	23	217
+ UPG IN	0	16	7	23	5	102	10	67	1	32	23	240
+ TT IN	7	23	0	23	0	102	0	67	0	32	7	247
NET RESULT	0	23	0	23	-10	102	2	67	0	32	-8	247
AUTHORIZED	0	23		23		121		60		29		233
SKILL 75												
ENTERING	-	50	-	51	-	107	-	65	-	63	-	336
- SEPS	0	50	6	45	3	104	8	57	4	59	21	315
(EXP)	0	50	6	45	3	104	8	57	4	59	21	315
- UPG OUT	15	35	10	35	9	95	1	56	0	59	35	280
+ UPG IN	0	35	15	50	10	105	9	65	1	60	35	315
+ TT IN	15	50	0	50	0	105	0	65	0	60	15	330
NET RESULT	0	50	-1	50	-2	105	0	65	-3	60	-6	330
AUTHORIZED	0	48		48		103		62		62		275
SKILL 76												
ENTERING	-	0	-	0	-	14	-	5	-	2	-	21
- UPG OUT	0	0	0	0	1	13	0	5	0	2	1	20
+ UPG IN	0	0	0	0	0	13	1	6	0	2	1	21
NET RESULT	0	0	0	0	-1	13	1	6	0	2	0	21
AUTHORIZED	0	0		0		17		3		2		22
SKILL 77												
ENTERING	-	7	-	7	-	47	-	36	-	26	-	123
- SEPS	0	7	1	6	2	45	4	32	0	26	7	116
(EXP)	0	7	1	6	2	45	4	32	0	26	7	116
- UPG OUT	2	5	1	5	5	40	1	31	0	26	9	107
+ UPG IN	0	5	2	7	1	41	5	36	1	27	9	116
+ TT IN	2	7	0	7	0	41	0	36	0	27	2	118
NET RESULT	0	7	0	7	-6	41	0	36	1	27	-5	118
AUTHORIZED	0	6		6		55		33		24		118

FIGURE 22 (continued)

SKILL 78												
ENTERING	-	26	7	26	-	86	-	57	-	50	-	245
- SEPS	0	26	2	24	3	83	7	50	3	47	15	230
(EXP)	0	26	2	24	3	83	7	50	3	47	15	230
- UPG OUT	8	18	6	18	8	75	1	49	0	47	23	207
+ UPG IN	0	18	8	26	6	81	8	57	1	48	23	230
+ TT IN	8	26	0	26	0	81	0	57	0	48	8	238
NET RESULT	0	26	0	26	-5	81	0	57	-2	48	-7	238
AUTHORIZED	0	0	0	25		90		54		49		218

SKILL 79												
ENTERING	-	0	-	0	-	17	-	6	-	2	-	25
- UPG OUT	0	0	0	0	2	15	0	6	0	2	2	23
+ UPG IN	0	0	0	0	0	15	2	8	0	2	2	25
NET RESULT	0	0	0	0	-2	15	2	8	0	2	0	25
AUTHORIZED	0	0	0	0		20		4		2		26

SKILL 80												
ENTERING	-	31	-	32	-	92	-	65	-	85	-	305
- SEPS	0	31	3	29	3	89	8	57	6	79	20	285
(EXP)	0	31	3	29	3	89	8	57	6	79	20	285
- UPG OUT	9	22	7	22	8	81	1	56	0	79	25	240
+ UPG IN	0	22	9	31	7	88	0	64	1	80	25	285
+ TT IN	9	31	0	31	0	88	0	64	0	80	9	294
NET RESULT	0	31	-1	31	-4	88	-1	64	-5	80	-11	294
AUTHORIZED	0	0	0	29		95		63		83		270

SKILL 81												
ENTERING	-	0	-	0	-	1	-	1	-	17	-	19
NET RESULT	0	0	0	0	0	1	0	1	0	17	0	19
AUTHORIZED	0	0	0	0		1		1		16		18

FIGURE 22 (continued)

SKILL 82											
ENTERING	-	48	-	48	-	112	-	56	-	42	-
- SEPS	0	48	6	42	3	109	7	49	2	40	18
(EXP)	0	48	6	42	3	109	7	49	2	40	18
- UPG OUT	14	34	10	32	9	100	1	48	0	40	254
+ UPG IN	0	34	14	46	10	110	9	57	1	41	34
+ TT IN	14	48	0	46	0	110	0	57	0	41	14
NET RESULT	0	48	-2	46	-2	110	1	57	-1	41	-4
AUTHORIZED	0	0		47		108		51		39	245

SKILL 83											
ENTERING	-	25	-	25	-	105	-	94	-	107	-
- SEPS	0	25	2	23	4	101	13	81	6	101	25
(EXP)	0	25	2	23	4	101	13	81	6	101	25
- UPG OUT	7	18	5	18	10	91	2	79	0	101	24
+ UPG IN	0	18	7	25	5	96	10	89	2	103	24
+ TT IN	7	25	0	25	0	96	0	89	0	103	7
NET RESULT	0	25	0	25	-4	96	-5	89	-4	103	-18
AUTHORIZED	0	0		24		114		95		105	338

SKILL 84											
ENTERING	-	0	-	0	-	15	-	24	-	31	-
- SEPS	0	0	0	0	0	15	3	21	1	30	4
(EXP)	0	0	0	0	0	15	3	21	1	30	4
- UPG OUT	0	0	0	0	2	13	1	20	0	30	3
+ UPG IN	0	0	0	0	0	13	2	22	1	31	3
NET RESULT	0	0	0	0	-2	13	-2	22	0	31	-4
AUTHORIZED	0	0		0		19		27		30	76

SKILL 85											
ENTERING	-	33	-	33	-	126	-	84	-	67	-
- SEPS	0	33	3	30	5	121	11	73	5	62	24
(EXP)	0	33	3	30	5	121	11	73	5	62	24
- UPG OUT	10	23	7	23	12	109	1	72	0	62	30
+ UPG IN	0	23	10	33	7	116	12	84	1	63	30
+ TT IN	10	33	0	33	0	116	0	84	0	63	10
NET RESULT	0	33	0	33	-10	116	0	84	-4	63	-14
AUTHORIZED	0	0		33		139		79		68	319

FIGURE 22 (continued)

SKILL 86													
ENTERING	-	20	-	20	-	38	-	25	-	57	-	160	
- SEPS	0	20	2	18	0	38	3	22	4	53	9	151	
(EXP)	0	20	2	18	0	38	3	22	4	53	9	151	
- UPG OUT	6	14	4	14	3	35	1	21	0	53	14	137	
+ UPG IN	0	14	6	20	4	39	3	24	1	54	14	151	
+ TT IN	6	20	0	20	0	39	0	24	0	54	6	157	
NET RESULT	0	20	0	20	1	39	-1	24	-3	54	-3	157	
AUTHORIZED	0	0	0	19	0	34	0	24	0	56	0	133	
SKILL 87													
ENTERING	-	24	-	24	-	48	-	56	-	32	-	164	
- SEPS	0	24	2	22	1	47	7	49	1	31	11	173	
(EXP)	0	24	2	22	1	47	7	49	1	31	11	173	
- UPG OUT	7	17	5	17	4	43	1	48	0	31	17	156	
+ UPG IN	0	17	7	24	5	48	4	52	1	32	17	173	
+ TT IN	7	24	0	24	0	48	0	52	0	32	7	160	
NET RESULT	0	24	0	24	0	48	-4	52	0	32	-4	160	
AUTHORIZED	0	0	0	23	0	45	0	60	0	29	0	157	
SKILL 88													
ENTERING	-	0	-	0	-	96	-	179	-	118	-	393	
- SEPS	0	0	0	0	5	91	31	148	6	112	42	351	
(EXP)	0	0	0	0	5	91	31	148	6	112	42	351	
- UPG OUT	0	0	0	0	10	81	3	145	0	112	13	338	
+ UPG IN	0	0	0	0	0	81	10	155	3	115	13	351	
NET RESULT	0	0	0	0	-15	81	-24	155	-3	115	-42	351	
AUTHORIZED	0	0	0	0	0	116	0	198	0	115	0	429	
SKILL 89													
ENTERING	-	125	-	125	-	207	-	107	-	54	-	618	
- SEPS	0	125	13	112	8	199	14	93	3	51	38	580	
(EXP)	0	125	13	112	8	199	14	93	3	51	38	580	
- UPG OUT	37	88	26	86	15	184	2	91	0	51	80	500	
+ UPG IN	0	88	37	123	26	210	15	106	2	53	80	580	
+ TT IN	37	125	0	123	0	210	0	106	0	53	37	617	
NET RESULT	0	125	-2	123	3	210	-1	106	-1	53	-1	617	
AUTHORIZED	0	0	0	119	0	184	0	100	0	51	0	454	

FIGURE 22 (continued)

SKILL 90													
ENTERING	-	0	-	0	-	81	-	52	-	41	-	174	-
- SEPS	0	0	0	0	3	78	6	46	1	40	10	164	10
(EXP)	0	0	0	0	3	78	6	46	1	40	10	164	10
- UPG OUT	0	0	0	0	8	70	1	45	0	40	9	155	9
+ UPG IN	0	0	0	0	0	70	8	53	1	41	9	164	9
NET RESULT	0	0	0	0	-11	70	1	53	0	41	-10	164	-
AUTHORIZED	0	0	0	0	0	98		45		38		181	
SKILL 91													
ENTERING	-	0	-	0	-	19	-	19	-	5	-	43	-
- SEPS	0	0	0	0	0	19	2	17	0	5	2	41	2
(EXP)	0	0	0	0	0	19	2	17	0	5	2	41	2
- UPG OUT	0	0	0	0	2	17	0	17	0	5	2	39	2
+ UPG IN	0	0	0	0	0	17	2	19	0	5	2	41	2
NET RESULT	0	0	0	0	-2	17	0	19	0	5	-2	41	-
AUTHORIZED	0	0	0	0	0	22		21		3		46	
GRAND TOTAL													
ENTERING	-	1527	-	1527	-	3320	-	2111	-	1443	-	9928	-
- SEPS	0	1527	158	1369	115	3205	278	1833	73	1370	624	9304	624
(EXP)	0	1527	158	1369	115	3205	278	1833	73	1370	624	9304	624
- UPG OUT	455	1072	315	1054	268	2937	35	1798	0	1370	1073	8231	1073
+ UPG IN	0	1072	455	1509	315	3252	268	2066	35	1405	1073	9304	1073
+ TT IN	455	1527	0	1509	0	3252	0	2066	0	1405	455	9759	455
NET RESULT	0	1527	-18	1509	-68	3252	-45	2066	-38	1405	-169	9759	-169
AUTHORIZED	0	1527	0	1509	0	3252		2066		1405		8232	