



***U.S. Air Force Operational Medicine: Using the  
Enterprise Estimating Supplies  
Program to Develop Materiel Solutions for the  
Air Force Optometry Augmentation Team (FFDOT)***

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## **Executive Summary**

The Naval Health Research Center (NHRC) has used its modeling and simulation expertise to develop and update conventional U.S. Air Force medical assets since 2004. Air Force medical modeling capabilities currently capture care and treatment of the sick and injured from the first responder through theater hospitalization.

The objective of this study was to leverage medical modeling and simulation advantages to provide recommendations for allowance standard (AS) configurations based on the Air Force Optometry Augmentation Team (FFDOT) operational and clinical requirements.

NHRC analysts reviewed the FFDOT, analyzed clinical requirements with subject matter experts, and used modeling and simulation tools to develop the operationally based and patient-driven recommended 917Q line list.

The Unit Type Code (UTC) capabilities, operational requirements, and materiel solutions were identified, and issues of modernization, clinical requirement, standardization, and redundancy were addressed. The overall changes resulted in a reduction in weight by 31%, cube by 22%, and cost by 4%, or \$9,500.

Modeling and simulating a medical system like the FFDOT, with a range of capabilities and functional areas, validates the materiel solutions for each UTC. It is effective in facilitating AS reviews that focus on advancing the mission, operational requirements, and capabilities of these agile, deployable medical resources.

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## Introduction

The Naval Health Research Center (NHRC) has used its modeling and simulation expertise to develop and update U.S. Air Force medical capabilities, allowance standards (ASs), and surgical subspecialty Unit Type Codes (UTCs) since 2004. Air Force medical units must remain small, light, and flexible. Based on the success of previous work, the Air Force asked NHRC to conduct a review of the Optometry Augmentation Team (FFDOT) (Konoske, 2009).

The U.S. Air Force Medical Services are faced with a wide range of potential scenarios, from providing warfighters forward resuscitative care to assisting civilian populations during humanitarian relief operations. Air Force planners and UTC developers have closely followed the *Joint Vision 2010* concept of providing highly mobile medical resources with a minimal logistic footprint, without compromising capability (Office of the Joint Chiefs of Staff, 1998). Additionally, guidance provided by the *Joint Vision 2020* calls for a more scientific approach that leverages and enhances existing information technologies to support modern operational capabilities (Office of the Joint Chiefs of Staff, 2000). Emphasis on mobility and capability resulted in a modular approach to prepare, plan, and deploy the FFDOT expeditionary medical platform.

## Method

The NHRC method of modeling medical supply requirements was developed to establish and/or review medical inventories for various levels of care. Its aim is to give clinicians, in the field, the materiel they need to provide the best care possible, while still maintaining as small a logistical footprint as possible. It involves a process that begins with the identification of likely patient types to be encountered by a particular type of medical treatment asset, including combat wounds, non-battle injuries, and illnesses. *International Classification of Diseases*, Ninth Revision (ICD-9) coded patient conditions, selected by the Defense Medical Materiel Program Office, are used for this purpose. Figure 1 depicts NHRC processes used when developing a modeling and simulation package.

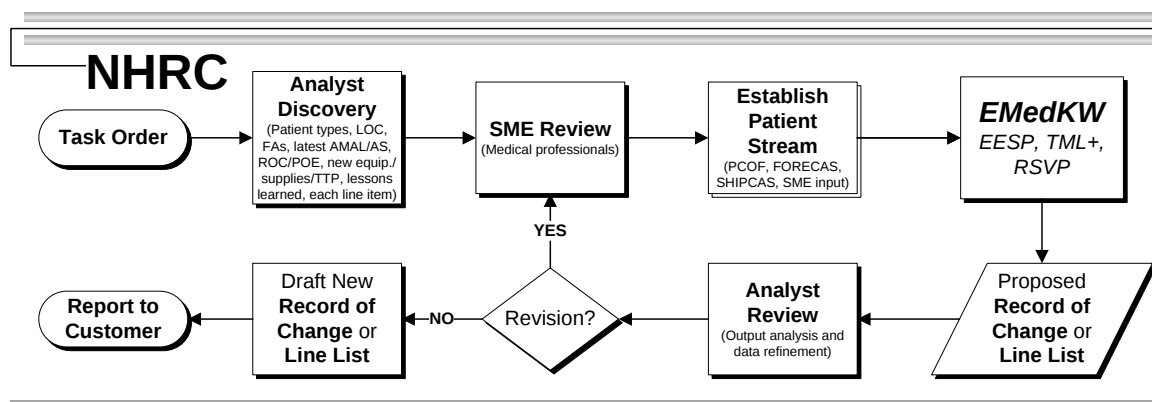


Figure 1. An example of the NHRC AS review process.

## Subject Matter Expert Guidance

A comprehensive review of the FFDOT AS 917Q was conducted to establish a baseline. The kick-off meeting was held December 9, 2009 via teleconference, with subsequent teleconferences and an on-site meeting held January 28, 2010, between NHRC researchers and subject matter experts (SMEs).

## Patient Stream

A 120-person patient stream, vetted by the optometry SME panel, was derived from theater patient encounter data for a 14-month period between Sept 2008 and December 2009. This data represents 1,547 patients seen over this period, with an average of 97 patients per month. The patient stream was used to simulate the equipment and supply requirements for a range of non-surgical injuries and illnesses that would typically be seen and treated by an optometrist and one technician working 12-hour days, 6 days per week, over a 30-day period. Table 1 describes the patient stream.

Table 1  
*FFDOT Patient Stream*

| ICD-9 | ICD-9 descriptions                                                 | No. pts |
|-------|--------------------------------------------------------------------|---------|
| 367   | Disorders of refraction and accommodation                          | 45      |
| 372   | Disorders of conjunctiva                                           | 11      |
| 373   | Inflammation of eyelids                                            | 11      |
| 918   | Superficial injury of eye and adnexa                               | 10      |
| 379   | Other disorders of eye                                             | 9       |
| 370   | Keratitis                                                          | 6       |
| V709  | Unspecified general medical examination                            | 5       |
| 346   | Migraine                                                           | 5       |
| 368   | Visual disturbances                                                | 5       |
| 363   | Chorioretinal inflammations, scars, and other disorders of choroid | 3       |
| 364   | Disorders of iris and ciliary body                                 | 3       |
| 940   | Burn confined to eye and adnexa                                    | 3       |
| 076   | Trachoma                                                           | 1       |
| 365   | Glaucoma                                                           | 1       |
| 376   | Disorders of the orbit                                             | 1       |

| ICD-9        | ICD-9 descriptions                           | No. pts    |
|--------------|----------------------------------------------|------------|
| 377          | Disorders of optic nerve and visual pathways | 1          |
| <b>Total</b> |                                              | <b>120</b> |

### Expeditionary Medical Knowledge Warehouse

The patient stream is input to the Expeditionary Medical Knowledge Warehouse (EMedKW) program to perform modeling and simulation. EMedKW is comprised of the Enterprise Estimating Supplies Program (EESP), the Tactical Medical Logistics (TML+) planning tool, and the ReSupply Validation Program (RSVP). EMedKW is a service-oriented architecture system designed to protect and organize medical data. EMedKW provides the ability to estimate the equipment and consumable items needed to treat a particular patient distribution, while also tracking inventory to monitor mission readiness. Within EMedKW, the tasks required to treat each PC code are identified and matched with the required equipment and consumable items. Review of the output informs the appropriate modifications to the 917Q line list for the Air Combat Command Manpower and Equipment Force Packaging System review.

The following example describes the EMedKW data structure (see Figure 2). The task profile shows the likely clinical tasks to be performed on this type of patient in that functional area, and the percentage of those patients expected to receive them. The “Equipment/supplies” column identifies the items needed to complete the “Insert endo-trach tube” task at that level of capability. Not shown in this figure are additional data fields used to calculate supply quantities, including the amount of each supply needed to complete the task, how often the task will be repeated in the first 24 hours of treatment, how often the task will be repeated in each subsequent 24-hour period, and the average length of stay at that facility.

| ICD-9 code | Medical capability         | Functional area | Task profile                 | Patients % | Equipment/supplies                               |
|------------|----------------------------|-----------------|------------------------------|------------|--------------------------------------------------|
| 800.13     | Emergency forward care     | Triage/pre-op   | Triage                       | 100        | Laryngoscope INF/ADL w/ 4 detachable blades      |
| 800.26     | Forward resuscitative care | O.R.            | Patient assessment           | 100        | Tube trach endotrach double lumen left 39 Fr     |
| 800.42     | Forward resuscitative care | Ward/ICU        | Insert endo-trach tube       | 30         | Forceps trach McGill fenestrated                 |
| 800.60     | Theater                    | Radiology       | Neuro checks                 | 100        | Lubricant surgical 5 gram 144S                   |
| 801.01     | hospitalization            | Lab             | Apply c-collar               | 60         | Vecuronium bromide inj 10mg/ml 10ml vial         |
| 850.1      | Definitive care            | Pharmacy        | Set-up O2                    | 20         | Basin emesis plastic disp., 250S                 |
| 850.9      |                            |                 | Admin O2                     | 20         | Gloves patient exam large 100s                   |
| -          |                            |                 | Cardiac monitoring           | 100        | Syringe hypodermic 3ml                           |
| -          |                            |                 | CPR                          | 100        | Luer Lock 100s                                   |
| 870.4      |                            |                 | Emergency control hemorrhage | 80         | Needle hypodermic 20ga 1.43–1.56 Luer Lock, 100S |
|            |                            |                 |                              | 100        | Pad isopropyl impregnated, 200S                  |

Figure 2. An example of NHRC’s programmatic modeling process using a patient ICD-9 Code 800.13.

## Capability

The FFDOT AS is used by optometrists as a component of the Aerospace Medical Contingency Ground Support System or with an EMEDS +25. This UTC is capable of supporting deployed medical commanders in wartime, small-scale contingencies, humanitarian assistance, and domestic disaster response.

Additionally, the FFDOT provides personnel and equipment for primary eye care services including refractions, diagnostic evaluations, muscle balance testing, measurement of intraocular pressure, treatment and management of ocular disease and acute ocular injuries, co-management of ocular surgery, and stabilization of advanced ocular trauma for aeromedical evacuation. Staffing consists of an optometrist (42E3) and an optometric technician (4V071).

## Results

### Change Justification

Changes to the AS are categorized as modernization, clinical requirements, standardization, and redundancy. There are a total of 19 items recommended for deletion, and nine of these items are recommended for deletion without replacement. Additionally, four line items are recommended for addition; bead laboratory glass, plastic bags, and battery sizes “C” and “D.” There were a total of 49 line-item changes. A detailed listing of the 917Q AS recommended changes is provided in Appendix A.

### Quantity Changes

Due to clinical requirements, two equipment line items are recommended for deletion without replacement, due to clinical requirements; forceps and a lacrimal probe. One item recommended for addition is bead laboratory glass for use with the plastic spectacle warmer. The overall weight for equipment is increased by less than 1%, cube by .2%, and cost decreased by .03% (or \$23).

Ten medications currently in the 917Q AS would be drawn from the EMEDS 938 AS pharmacy. Optimizing medications from the EMEDS 938 pharmacy reduces the weight by 73%, cube by 57%, and cost by 62%, (or \$7,100). Several medication quantities were changed based on the requirements of the patient stream simulation. For example, acetazolamide tablets were reduced from 24 bottles of 100 to three bottles, homatropine solution was reduced from 72 bottles to 13 bottles, and hydroxypropyl solution from 50 bottles to one bottle.

Consumables drawn from the 938 AS will decrease the overall weight by 82%, cube by 74%, and cost by 74%, (or \$2,300). Five line items are recommended for deletion, such as cover personnel, skin cleanser, and tape pressure. Other recommended deletions from the 917Q AS can be drawn from the EMEDS 938 AS, like alcohol pads, eye pads, exam gloves, and wood applicators.

Durables consist of four line items. Battery sizes “C” and “D” are recommended additions for use with the Welch Allen handle and the lensmeter. There was an insignificant change in weight, cube, and cost.

The overall changes resulted in a reduction in weight by 31%, cube by 28%, and cost by 11%, or \$9,500. Table 2 is an overview of changes by category. Appendix B shows an aggregated line items listing from the 938 EMEDS AS.

Table 2  
*FFDOT Weight, Cube, and Cost*

| Category           | Weight (lbs) | Cube (cf) | Cost        |
|--------------------|--------------|-----------|-------------|
| AS-917Q Equipment  | 603.64       | 115.48    | \$75,249.61 |
| EESP Equipment     | 608.32       | 115.72    | \$75,226.24 |
| Difference         | 4.68         | 0.24      | -\$23.37    |
| % Change           | 0.78         | 0.21      | -0.03       |
| AS-917Q Medicine   | 161.19       | 64.37     | \$11,529.96 |
| EESP Medicine      | 42.40        | 27.88     | \$4,416.87  |
| Difference         | -118.80      | -36.49    | -\$7,113.09 |
| % Change           | -73.70       | -56.69    | -61.69      |
| AS-917Q Consumable | 252.57       | 30.87     | \$3,174.55  |
| EESP Consumable    | 44.45        | 7.91      | \$831.69    |
| Difference         | -208.12      | -22.96    | -\$2,342.86 |
| % Change           | -82.40       | -27.52    | 11.75       |
| AS-917Q Durable    | 3.35         | 0.52      | \$21.51     |
| EESP Durable       | 5.30         | 0.52      | \$20.92     |
| Difference         | 1.95         | 0.00      | -\$0.59     |
| % Change           | 58.27        | 0.00      | -2.74       |
| AS-917Q Totals     | 1020.76      | 211.24    | \$89,975.63 |
| EESP Totals        | 700.47       | 152.03    | \$80,495.72 |
| Difference         | -320.28      | -59.21    | -\$9,479.91 |
| % Change           | -31.38       | -21.95    | -4.24       |

## Conclusion

Modeling and simulation was used to study the FFDOT and recommend changes to its AS. The clinical capabilities include personnel and equipment required to establish medical and surgical eye care support for a deployed medical facility. The FFDOT is capable of augmenting an Aerospace Medical Contingency Ground Support System increment but can be utilized in an EMEDS +25.

Modeling and simulation tools are essential for projecting appropriate medical care needs for our service personnel. Standardizing equipment and consumables with the Defense Medical Materiel Program Office-approved items makes the FFDOT review more efficient. Updating and

maintaining the patient data and FFDOT contents database will ensure that future medical needs are met in the most effective manner.

### References

- Konoske, P. (2009). *Statement of Work FY10: Using the Naval Health Research Center's Medical Planning Applications to Review or Validate Air Force Medical Requirements and Capabilities*. San Diego, CA: Naval Health Research Center.
- Office of the Joint Chiefs of Staff. (1998). *Joint Vision 2010*. Washington, DC: Department of Defense.
- Office of the Joint Chiefs of Staff. (2000). *Joint Vision 2020*. Washington, DC: Department of Defense.

**Appendix A.**  
FFDOT Line List

| Status           | NSN           | Supply Description                                                     | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost  |
|------------------|---------------|------------------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|------------|
| <b>Equipment</b> |               |                                                                        |    |         |          |                  |                   |              |               |                |            |
| A                | 7520002855416 | BASKET WASTEPAPER                                                      | EA | 2       | 2        | 6.00             | 4.00              | \$19.40      | 6.00          | 4.00           | \$19.40    |
| F                | 6640002999818 | BEAD LABORATORY GLASS 5LB                                              | EA | 0       | 1        | 0.00             | 0.00              | \$0.00       | 5.00          | 0.25           | \$17.72    |
| A                | 6515NCM040204 | BULB REPLACEMENT F/RETIN                                               | EA | 1       | 1        | 0.10             | 0.10              | \$27.00      | 0.10          | 0.10           | \$27.00    |
| A                | 6515NCM040203 | BULB REPLACEMENT F/HALOG                                               | EA | 1       | 1        | 0.10             | 0.10              | \$27.00      | 0.10          | 0.10           | \$27.00    |
| A                | 6540014599272 | BULB SLIT LAMP OPHTHALMIC<br>USED WITH 6540014599226 LAMP<br>SLIT OPHT | EA | 1       | 1        | 0.55             | 0.11              | \$104.33     | 0.55          | 0.11           | \$104.33   |
| A                | 6515013561757 | BUR REMOVER RUST RING 5MM<br>REPLACEMENT F/ALGERBRUSH MDL<br>E0819A&B  | EA | 1       | 1        | 0.01             | 0.01              | \$104.75     | 0.01          | 0.01           | \$104.75   |
| A                | 6540014624696 | CASE CARRYING REFRACTOR AND<br>KERATOMETER E.I. 6540014624634          | EA | 1       | 1        | 1.25             | 0.25              | \$249.95     | 1.25          | 0.25           | \$249.95   |
| A                | 6515015034315 | CASE PHOROPTOR & ARM HEAVY<br>DUTY F/MORRELL                           | EA | 1       | 1        | 15.00            | 3.20              | \$1,061.02   | 15.00         | 3.20           | \$1,061.02 |
| A                | 6515015034319 | CASE PHOROPTOR TRIPOD<br>MORRELL WHITE                                 | EA | 1       | 1        | 15.00            | 2.50              | \$1,303.46   | 15.00         | 2.50           | \$1,303.46 |
| A                | 6540014599279 | CASE SLIT LAMP OPHTHALMIC<br>W/6540014599226                           | EA | 1       | 1        | 10.00            | 1.72              | \$227.49     | 10.00         | 1.72           | \$227.49   |
| A                | 7105002698463 | CHAIR FOLDING W/O ARMS STEEL<br>GRAY ENAMEL                            | EA | 4       | 4        | 20.00            | 4.00              | \$51.64      | 20.00         | 4.00           | \$51.64    |
| A                | 6540010793516 | CHART AMSLER RECORD 50 CHARTS                                          | PG | 1       | 1        | 0.30             | 0.10              | \$3.75       | 0.30          | 0.10           | \$3.75     |
| A                | 6540005988078 | CHART SET VISION ACUITY TEST<br>DISTANCE VISION                        | SE | 1       | 1        | 3.19             | 0.14              | \$12.53      | 3.19          | 0.14           | \$12.53    |
| A                | 6540005988077 | CHART SET VISION ACUITY TEST<br>NEAR VISION                            | SE | 1       | 1        | 0.06             | 0.00              | \$18.10      | 0.06          | 0.00           | \$18.10    |
| A                | 7035NCM071333 | COMPUTER LAPTOP CLIENT                                                 | EA | 1       | 1        | 5.00             | 0.50              | \$4,016.00   | 5.00          | 0.50           | \$4,016.00 |
| A                | 6540014863725 | DEPTH PERCEPTION APPARATUS<br>OPHTHALMIC                               | EA | 1       | 1        | 0.55             | 0.12              | \$205.76     | 0.55          | 0.12           | \$205.76   |
| A                | 6540014624614 | EXOPHTHALMOMETER PRISM<br>HERTEL TYPE                                  | EA | 1       | 1        | 0.79             | 0.04              | \$332.81     | 0.79          | 0.04           | \$332.81   |

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item

| Status | NSN           | Supply Description                                               | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost  |
|--------|---------------|------------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|------------|
| A      | 6515014628863 | FIBER OPTIC LIGHT SYSTEM                                         | EA | 1       | 1        | 9.50             | 0.14              | \$1,786.94   | 9.50          | 0.14           | \$1,786.94 |
| D      | 6515011151736 | FORCEPS EYE SUTURE STR FLEX 4.125IN FINE POINTS PASSIVATED       | EA | 1       | 0        | 0.01             | 0.01              | \$26.89      | 0.00          | 0.00           | \$0.00     |
| A      | 6540003462240 | FRAME OPHTHALMIC TRIAL LENS SET W/CORNEAL SIGHTING DEVICE        | EA | 1       | 1        | 0.18             | 0.10              | \$322.29     | 0.18          | 0.10           | \$322.29   |
| A      | 6540014618942 | HANDLE RECHARGEABLE WELCH ALLYN 3.5V OUTLET TYPE                 | EA | 1       | 1        | 1.15             | 0.15              | \$133.15     | 1.15          | 0.15           | \$133.15   |
| A      | 6515NCM040201 | LA FORCE FOREIGN BODY SPUD                                       | EA | 1       | 1        | 0.10             | 0.10              | \$25.00      | 0.10          | 0.10           | \$25.00    |
| A      | 6540010787124 | LENS CONDENSING 20 DIOPTR ASPHERICAL EXAM OF OCULAR FUNDUS       | EA | 1       | 1        | 0.05             | 0.01              | \$221.70     | 0.05          | 0.01           | \$221.70   |
| A      | 6540015131948 | LENS CONDENSING INDIRECT 90D CLEAR 21.5MM DIAMETER NON-CONTACT   | EA | 1       | 1        | 0.55             | 0.12              | \$333.27     | 0.55          | 0.12           | \$333.27   |
| A      | 6540010784164 | LENS CONTACT 3-MIRROR GOLDMANN SMALL                             | EA | 1       | 1        | 0.01             | 0.01              | \$311.54     | 0.01          | 0.01           | \$311.54   |
| A      | 6540003462800 | LENS DIPLOPIA TEST RED PLASTIC WITH HANDLE                       | EA | 1       | 1        | 0.08             | 0.01              | \$7.80       | 0.08          | 0.01           | \$7.80     |
| A      | 6540010567377 | LENS SET TRIAL OPHTHALMIC REFRACTION SET WITHOUT RETINOSCOPE     | SE | 1       | 1        | 7.12             | 8.00              | \$4,565.31   | 7.12          | 8.00           | \$4,565.31 |
| A      | 6540014624703 | LENSMETER COMPACT AC/DC                                          | EA | 1       | 1        | 0.25             | 0.01              | \$1,503.19   | 0.25          | 0.01           | \$1,503.19 |
| A      | 6230000885200 | LIGHT DESK                                                       | EA | 1       | 1        | 1.70             | 0.40              | \$23.52      | 1.70          | 0.40           | \$23.52    |
| A      | 6530004808286 | LIGHT DIAGNOSTIC EXAMINATION BURTON TYPE HAND                    | EA | 1       | 1        | 3.25             | 0.34              | \$524.45     | 3.25          | 0.34           | \$524.45   |
| A      | 6540014623977 | LIGHT SOURCE AUXILIARY HI INTENSITY NON-COAXIAL MAIN POWER OR12V | EA | 1       | 1        | 1.25             | 0.25              | \$760.73     | 1.25          | 0.25           | \$760.73   |
| A      | 1670009962780 | NET CARGO TIE DOWN 5.5FTX14.5                                    | EA | 2       | 2        | 40.00            | 10.00             | \$284.00     | 40.00         | 10.00          | \$284.00   |
| A      | 1670009694103 | NET CARGO TIE DOWN 96IN HT 10,000LB CAP                          | EA | 1       | 1        | 20.00            | 5.00              | \$142.00     | 20.00         | 5.00           | \$142.00   |
| A      | 6540011397611 | OCCLUDER EYE PLASTIC 7 IN DOUBLE-ENDED COMBINATION PIN HOLE      | EA | 1       | 1        | 0.01             | 0.01              | \$41.30      | 0.01          | 0.01           | \$41.30    |

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item

| Status | NSN           | Supply Description                                               | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost   |
|--------|---------------|------------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|-------------|
| A      | 6540014142056 | OPHTHALMOSCOPE COAXIAL HALOGEN 16 APERTURES                      | EA | 1       | 1        | 1.15             | 0.20              | \$255.31     | 1.15          | 0.20           | \$255.31    |
| A      | 6540014624726 | OPHTHALMOSCOPE HEINE SIGMA 150 SPECTACLE MOUNTED INDIRECT        | EA | 1       | 1        | 1.15             | 0.15              | \$1,552.60   | 1.15          | 0.15           | \$1,552.60  |
| A      | 1670008204896 | PALLET CARGO AIRCRAFT 108INX88IN                                 | EA | 1       | 1        | 200.00           | 9.00              | \$856.96     | 200.00        | 9.00           | \$856.96    |
| A      | 6540008776464 | PHOROPTER MINUS CYLINDRICAL LENS TYPE                            | EA | 1       | 1        | 8.50             | 1.10              | \$4,774.92   | 8.50          | 1.10           | \$4,774.92  |
| A      | 6540002998186 | PLATE SET PSEUDOISCHROMATIC PLATE QUANTITY 14 4.5IN              | SE | 1       | 1        | 1.34             | 0.10              | \$186.43     | 1.34          | 0.10           | \$186.43    |
| A      | 6540003566050 | PRISM BAR OPHTHALMOL BERENS HORIZONTAL IMAGE DISPLACE 15 PRISMS  | EA | 1       | 1        | 0.56             | 0.14              | \$142.00     | 0.56          | 0.14           | \$142.00    |
| A      | 6540003566000 | PRISM BAR OPHTHALMOL BERENS VERTICAL IMAGE DISPLACE 14 PRISMS    | EA | 1       | 1        | 0.53             | 0.14              | \$140.55     | 0.53          | 0.14           | \$140.55    |
| D      | 6515005261259 | PROBE LACHRYMAL BOWMAN STERLING SILVER SZ 00                     | EA | 1       | 0        | 0.31             | 0.00              | \$14.20      | 0.00          | 0.00           | \$0.00      |
| A      | 6540012317252 | RACK LENS SKIASCOPIC CONTAINS 2 RACKS:1PLUS1MINUS6 25MM LENS/RAK | SE | 1       | 1        | 1.00             | 0.05              | \$304.29     | 1.00          | 0.05           | \$304.29    |
| A      | 6540014624634 | REFRACTOR AND KERATOMETER AUTOMATIC RETINOMAX K-PLUS HAND-HELD   | EA | 1       | 1        | 0.15             | 0.01              | \$36,400.72  | 0.15          | 0.01           | \$36,400.72 |
| A      | 6540014559258 | RETINOSCOPE 3.5V STREAK EXTERNAL FOCUSING SLEEVE HALOGEN         | EA | 1       | 1        | 1.00             | 0.03              | \$498.18     | 1.00          | 0.03           | \$498.18    |
| A      | 6515014605954 | RETRACTOR EYELID                                                 | EA | 2       | 2        | 0.70             | 0.22              | \$65.26      | 0.70          | 0.22           | \$65.26     |
| A      | 8340NCM060739 | ROPAK CONTAINER LID 40X48                                        | EA | 3       | 3        | 15.00            | 3.00              | \$112.02     | 15.00         | 3.00           | \$112.02    |
| A      | 8340NCM020030 | ROPAK CONTAINER TWO DROP DOORS 84                                | EA | 3       | 3        | 75.00            | 45.00             | \$735.00     | 75.00         | 45.00          | \$735.00    |
| A      | 6540011654987 | RULER MEASURING PUPILLARY DISTANCE 6X.50IN                       | EA | 1       | 1        | 0.10             | 0.02              | \$0.88       | 0.10          | 0.02           | \$0.88      |
| A      | 6540014599226 | SLIT LAMP OPHTHALMIC                                             | EA | 1       | 1        | 3.00             | 0.88              | \$5,810.49   | 3.00          | 0.88           | \$5,810.49  |
| A      | 6540015053800 | STAND TRIPOD FOR PHOROPTER                                       | EA | 1       | 1        | 25.00            | 2.80              | \$925.33     | 25.00         | 2.80           | \$925.33    |

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item

| Status      | NSN           | Supply Description                                            | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost  |
|-------------|---------------|---------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|------------|
| A           | 6530014979938 | STOOL EXAMINATION 18-24.5INX15IN 4LEG ADJ W/FOOT RING         | EA | 2       | 2        | 7.70             | 4.00              | \$453.08     | 7.70          | 4.00           | \$453.08   |
| A           | 7105002699275 | TABLE FOLDING TENT OD 35X27X23IN                              | EA | 2       | 2        | 88.00            | 6.00              | \$635.14     | 88.00         | 6.00           | \$635.14   |
| A           | 6540014587838 | TONOMETER OPHTHALMIC HAND HELD PORTABLE POCKE                 | EA | 1       | 1        | 1.00             | 0.02              | \$1,834.00   | 1.00          | 0.02           | \$1,834.00 |
| A           | 6540011458776 | TOOL KIT OPTICIAN                                             | SE | 1       | 1        | 4.00             | 0.12              | \$282.56     | 4.00          | 0.12           | \$282.56   |
| A           | 6540014618991 | TRANSILLUMINATOR HE WELCH ALLYN 3.5 VOLT FINNOFF              | EA | 1       | 1        | 1.15             | 0.15              | \$144.76     | 1.15          | 0.15           | \$144.76   |
| A           | 6540002999590 | WARMER PLASTIC SPECTACLE FRAME 115 VOLT 60 HERTZ AC 100 WATTS | EA | 1       | 1        | 4.19             | 0.80              | \$346.86     | 4.19          | 0.80           | \$346.86   |
| Medications |               |                                                               |    |         |          |                  |                   |              |               |                |            |
| C           | 6505006640857 | ACETAZOLAMIDE TABLETS USP 250MG 100S                          | BT | 24      | 3        | 4.80             | 19.44             | \$235.44     | 0.60          | 2.43           | \$29.43    |
| C           | 6505013463066 | APRACLOnidine Hydrochloride Ophthalmic Solution 0.1ML 24S     | PG | 3       | 0        | 3.75             | 0.04              | \$829.41     | 0.00          | 0.00           | \$0.00     |
| D           | 6505009617486 | ARTIFICIAL TEARS 15 ML                                        | BT | 36      | 0        | 3.60             | 3.60              | \$57.96      | 0.00          | 0.00           | \$0.00     |
| D           | 6505005824735 | ATROPINE SULFATE OPHTHALMIC SOL 1% 15ML BT                    | BT | 24      | 0        | 1.92             | 0.10              | \$85.68      | 0.00          | 0.00           | \$0.00     |
| A           | 6505005824190 | BACITRACIN OPHTHALMIC OINT 0.125OZ TU                         | TU | 24      | 24       | 0.72             | 19.55             | \$145.44     | 0.72          | 19.55          | \$145.44   |
| C           | 6505013396922 | CONTACT LENS SALINE SOLUTION 12FL OZ BOTTLE                   | BT | 12      | 5        | 18.00            | 0.36              | \$45.96      | 7.50          | 0.15           | \$19.15    |
| C           | 6505002999666 | CYCLOPENTOLAT HYDROCH OPHTH SOLUTION 1% 15ML                  | BT | 6       | 5        | 0.60             | 0.60              | \$6.60       | 0.50          | 0.50           | \$5.50     |
| D           | 6505011534335 | DOXYCYCLINE HYCLATE TAB 100MG 500S                            | BT | 2       | 0        | 0.62             | 0.20              | \$101.10     | 0.00          | 0.00           | \$0.00     |
| D           | 6505015032390 | FLUORESCIEIN SODIUM OPHTHALMIC STRIPS 1MG 100S                | PG | 3       | 0        | 0.30             | 0.30              | \$30.42      | 0.00          | 0.00           | \$0.00     |
| C           | 6505007644011 | HOMATROPINE HYDROBROMIDE OPHTH SOLUTION 5ML                   | BT | 72      | 13       | 2.16             | 7.20              | \$1,173.60   | 0.39          | 1.30           | \$211.90   |
| C           | 6505011472082 | HYDROXYPROPYL METHYLCELLULOSE OPHTHALMIC                      | BT | 50      | 1        | 3.00             | 0.50              | \$326.00     | 0.06          | 0.01           | \$6.52     |

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item

| Status | NSN           | Supply Description                                              | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost |
|--------|---------------|-----------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|-----------|
|        |               | SOLUTION USP 15ML BT                                            |    |         |          |                  |                   |              |               |                |           |
| C      | 6505013850495 | KETOROLAC TROMETHAMINE OPTHALMIC SOLUTION 5ML                   | BT | 24      | 4        | 0.79             | 0.24              | \$1,406.64   | 0.13          | 0.04           | \$234.44  |
| C      | 6505014407641 | LATANOPROST SOLUTION 50 MG/ML 2.5 ML                            | BT | 6       | 1        | 0.06             | 0.06              | \$201.60     | 0.01          | 0.01           | \$33.60   |
| C      | 6505014308715 | LODOXAMIDE TROMETHAMINE OPTHALMIC SOLUTION 10 ML                | BT | 24      | 4        | 2.64             | 0.24              | \$2,136.72   | 0.44          | 0.04           | \$356.12  |
| D      | 6505015090677 | MOXIFLOX OPTHAAHLORIDE 5MG/ML 0.5% 3ML                          | BT | 4       | 0        | 0.40             | 0.40              | \$508.04     | 0.00          | 0.00           | \$0.00    |
| D      | 6505015331574 | NAPHAZOLINE HCL&PHENIRAMINE MAL OPHT SOL 15ML                   | BT | 24      | 25       | 2.40             | 2.40              | \$322.56     | 2.50          | 2.50           | \$336.00  |
| C      | 6505011434642 | NEOMYCIN&POLYMYXIN B SULFATES&DEXAMETHASONE OPTH OINT USP 3.5GM | TU | 24      | 13       | 0.72             | 0.24              | \$1,601.52   | 0.39          | 0.13           | \$867.49  |
| C      | 6505011197693 | OPHTHALMIC IRRIGATING SOL 15-18ML BT 36S                        | PG | 6       | 2        | 13.28            | 1.02              | \$366.18     | 4.43          | 0.34           | \$122.06  |
| D      | 6505011197694 | OPHTHALMIC IRRIGATING SOLUTION 500ML BOTTLE W/HANGING DEVICE 6S | PG | 6       | 0        | 76.38            | 6.00              | \$183.60     | 0.00          | 0.00           | \$0.00    |
| B      | 6505002719220 | PHENYLEPHRINE HCL OPTHALMIC SOL 25% 15 ML                       | BT | 6       | 31       | 0.42             | 0.01              | \$93.42      | 2.17          | 0.06           | \$482.67  |
| D      | 6505005824679 | PILOCARPINE HYDROCHLORIDE OPTHALMIC SOLUTION USP 2% 15 ML       | BT | 3       | 0        | 0.39             | 0.03              | \$6.51       | 0.00          | 0.00           | \$0.00    |
| A      | 6505013200234 | POLYMYXIN B SULFATE/TMP OPTH SOL 10ML                           | BT | 24      | 24       | 21.12            | 0.24              | \$535.44     | 21.12         | 0.24           | \$535.44  |
| B      | 6505012935688 | PREDNISOLONE ACETATE AND GENTAMICIN SULFATE OPTHALMIC SUSP 5ML  | BT | 24      | 39       | 0.24             | 0.24              | \$559.44     | 0.39          | 0.39           | \$909.09  |
| D      | 6505001335843 | PREDNISOLONE ACETATE OPTHALMIC 1% 5 ML                          | BT | 2       | 0        | 0.20             | 0.20              | \$49.54      | 0.00          | 0.00           | \$0.00    |
| C      | 6505007539902 | PROPARACAINE HCL OPTHALMIC SOL                                  | BT | 6       | 5        | 0.72             | 0.04              | \$21.42      | 0.60          | 0.03           | \$17.85   |

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| Status             | NSN           | Supply Description                                               | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost |
|--------------------|---------------|------------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|-----------|
| D                  | 6505005824737 | TETRACAINE HYDROCH OPTH SOLUTION 0.5% 15 ML                      | BT | 5       | 0        | 1.00             | 0.73              | \$9.25       | 0.00          | 0.00           | \$0.00    |
| C                  | 6505010696519 | TIMOLOL MALEATE OPTHALMIC SOLUTION 5ML                           | BT | 3       | 1        | 0.30             | 0.30              | \$4.23       | 0.10          | 0.10           | \$1.41    |
| C                  | 6505011428314 | TRIFLURIDINE OPTHALMIC SOL 1% BT 7.5ML                           | BT | 6       | 1        | 0.30             | 0.04              | \$453.66     | 0.05          | 0.01           | \$75.61   |
| C                  | 6505008718289 | TROPICAMIDE OPTHALMIC SOLUTION USP 1% 15 ML                      | BT | 6       | 5        | 0.36             | 0.06              | \$32.58      | 0.30          | 0.05           | \$27.15   |
| <b>Consumables</b> |               |                                                                  |    |         |          |                  |                   |              |               |                |           |
| D                  | 6515009051473 | APPLICATOR PLAS/WOOD ROD 6IN STER 2000S                          | PG | 1       | 0        | 0.65             | 0.65              | \$41.18      | 0.00          | 0.00           | \$0.00    |
| D                  | 8105011958730 | BAG PLASTIC 10GAL 250S                                           | BX | 12      | 0        | 180.00           | 13.80             | \$205.92     | 0.00          | 0.00           | \$0.00    |
| E                  | 8105005798451 | BAG PLASTIC 38X36IN PLASHEAT SEAL 25LB 100S                      | PG | 1       | 1        | 0.00             | 0.00              | \$0.00       | 3.00          | 1.00           | \$14.72   |
| C                  | 6540NCM040202 | CASE CONTACT LENS 40S                                            | PG | 3       | 1        | 3.00             | 0.60              | \$21.00      | 1.00          | 0.20           | \$7.00    |
| D                  | 8465009997905 | COVER PERSONNEL IDENTIFICATION TAG                               | EA | 12      | 0        | 0.12             | 0.12              | \$2.64       | 0.00          | 0.00           | \$0.00    |
| C                  | 6540011071733 | FRAME SPECTACLE B15 SADDLE BRIDGES-10 52MM DIA 25MM BRIDGE BLACK | EA | 12      | 6        | 0.60             | 0.24              | \$126.12     | 0.30          | 0.12           | \$63.06   |
| B                  | 6540010992321 | FRAME SPECTACLE BAYONET TEMPLES 42 BY 52 EYE 20 BRIDGE           | EA | 1       | 6        | 0.04             | 0.06              | \$7.68       | 0.24          | 0.36           | \$46.08   |
| A                  | 6540011070304 | FRAME SPECTACLE NYLON NON-REFLECTIVE 46MM DIAMETER 22MM BRIDGE   | EA | 6       | 6        | 0.30             | 0.12              | \$39.66      | 0.30          | 0.12           | \$39.66   |
| A                  | 6540011070305 | FRAME SPECTACLE NYLON NON-REFLECTIVE 48MM DIAMETER 22MM BRIDGE   | EA | 6       | 6        | 0.30             | 0.12              | \$39.66      | 0.30          | 0.12           | \$39.66   |
| A                  | 6540011074510 | FRAME SPECTACLE NYLON NON-REFLECTIVE 48MM DIAMETER 24MM BRIDGE   | EA | 6       | 6        | 0.30             | 0.12              | \$62.40      | 0.30          | 0.12           | \$62.40   |
| C                  | 6540011071732 | FRAME SPECTACLE NYLON NON-REFLECTIVE 50MM DIAMETER 25MM BRIDGE   | EA | 12      | 6        | 0.60             | 0.24              | \$90.36      | 0.30          | 0.12           | \$45.18   |

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| Status          | NSN           | Supply Description                                             | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost |
|-----------------|---------------|----------------------------------------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|-----------|
| A               | 6540011074509 | FRAME SPECTACLE NYLON NON-REFLECTIVE 52MM DIAMETER 22MM BRIDGE | EA | 6       | 6        | 0.30             | 0.12              | \$43.98      | 0.30          | 0.12           | \$43.98   |
| D               | 6515014618933 | GLOVE PATIENT EXAM 9.5IN N-DEX NITR MED 100S                   | PG | 5       | 0        | 6.65             | 0.85              | \$86.15      | 0.00          | 0.00           | \$0.00    |
| D               | 6515015199172 | GLOVE PATIENT EXAM M NON STER PWD FREE 100S                    | PG | 3       | 0        | 3.00             | 0.38              | \$20.97      | 0.00          | 0.00           | \$0.00    |
| D               | 6515014915719 | GLOVE PATIENT EXAM PURPLE SZ 10 LARGE 100S                     | PG | 10      | 0        | 2.90             | 2.70              | \$170.00     | 0.00          | 0.00           | \$0.00    |
| D               | 6510011077575 | PAD EYE COTTON GAUZE 2.5X2IN 50S                               | PG | 1       | 0        | 0.47             | 1.00              | \$10.43      | 0.00          | 0.00           | \$0.00    |
| D               | 6510007863736 | PAD ISOPROPYL ALCOHOL IMPREGNATED WHITE 200S                   | PG | 4       | 0        | 4.00             | 0.40              | \$11.60      | 0.00          | 0.00           | \$0.00    |
| C               | 6515014491016 | SHIELD EYE SURG FOX ALUM 3X2IN 12S                             | PG | 12      | 1        | 3.60             | 3.60              | \$348.00     | 0.30          | 0.30           | \$29.00   |
| C               | 6508014598510 | SKIN CLEANSER ALCOHOL AEROSAL FOAM WATERLESS 5.4OZ CAN 12S     | PG | 12      | 2        | 4.20             | 1.32              | \$1,569.12   | 0.70          | 0.22           | \$261.52  |
| D               | 6508013780530 | SKIN CLEANSER MEDICATED 15S                                    | PG | 1       | 0        | 1.35             | 0.04              | \$4.17       | 0.00          | 0.00           | \$0.00    |
| C               | 6540010602964 | SPECTACLES POST MYDRIATIC DISPOSABLE PLASTIC W/ADJ TEMPLES100S | PG | 6       | 2        | 10.80            | 0.84              | \$147.78     | 3.60          | 0.28           | \$49.26   |
| B               | 6540013881302 | STRAP SPECTACLE FRAME SELF-ADJUSTING RUBBER BLACK R&L 10-11IN  | EA | 1       | 6        | 0.01             | 0.18              | \$5.72       | 0.06          | 1.08           | \$34.32   |
| D               | 6510009268882 | TAPE ADHESIVE SURG POROUS WOVEN 1INX10YD 12S                   | PG | 2       | 0        | 2.08             | 0.08              | \$35.14      | 0.00          | 0.00           | \$0.00    |
| D               | 7510000797906 | TAPE PRESSURE SENSITIVE ADHESIVE                               | RO | 3       | 0        | 0.30             | 0.30              | \$8.19       | 0.00          | 0.00           | \$0.00    |
| B               | 8540002818360 | TISSUE FACIAL 24X36IN WHITE 200/BX 6S                          | PG | 12      | 15       | 27.00            | 3.00              | \$76.68      | 33.75         | 3.75           | \$95.85   |
| <b>Durables</b> |               |                                                                |    |         |          |                  |                   |              |               |                |           |
| F               | 6135009857846 | BATTERY NONRECHARGEABLE 1.5V CELL C 12S                        | PG | 0       | 1        | 0.00             | 0.00              | \$0.00       | 1.85          | 0.10           | \$7.76    |

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item

| Status | NSN           | Supply Description             | UI | AS qty. | EESP qty | AS 917Q wt (lbs) | AS 917Q cube (cf) | AS 917Q cost | EESP wt (lbs) | EESP cube (cf) | EESP cost |
|--------|---------------|--------------------------------|----|---------|----------|------------------|-------------------|--------------|---------------|----------------|-----------|
| F      | 6135014468310 | BATTERY NONRECHARGEABLE D 4S   | PG | 0       | 1        | 0.00             | 0.00              | \$0.00       | 0.50          | 0.10           | \$4.59    |
| A      | 6230015179944 | FLASHLIGHT EXAM DISPOSABLE 10S | EA | 1       | 1        | 2.75             | 0.22              | \$2.10       | 2.75          | 0.22           | \$2.10    |
| C      | 7520013323967 | PEN BALL-POINT                 | PG | 3       | 1        | 0.60             | 0.30              | \$19.41      | 0.20          | 0.10           | \$6.47    |

*Note.* A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item

**Appendix B.**  
FFDOT Aggregated Line Items from the 938 EMEDS AS

| NSN           | Supply description                            | UI | 938AS | Total qty (UI) | Total wt (lbs) | Total cube (cf) | Total cost |
|---------------|-----------------------------------------------|----|-------|----------------|----------------|-----------------|------------|
| 6135009857846 | BATTERY NONRECHARGEABLE 1.5V CELL C 12S       | PG | 938BK | 1              | 1.852          | 0.100           | \$7.76     |
| 6505001335843 | PREDNISOLONE ACETATE OPTHALMIC 1% 5 ML        | BT | 938BE | 2              | 0.200          | 0.200           | \$49.54    |
| 6505005824737 | TETRACAINE HYDROCH OPTH SOLUTION 0.5% 15 ML   | BT | 938BE | 9              | 1.800          | 1.314           | \$16.65    |
| 6505009617486 | ARTIFICIAL TEARS 15 ML                        | BT | 938BE | 80             | 8.000          | 8.000           | \$128.80   |
| 6505009857301 | ACETAMINOPHEN TAB 0.325GM 1000S               | BT | 938BE | 1              | 0.920          | 0.100           | \$7.30     |
| 6505011534335 | DOXYCYCLINE HYCLATE TAB 100MG 500S            | BT | 938BE | 4              | 1.244          | 0.400           | \$202.20   |
| 6505012149062 | IBUPROFEN TAB 800 MG 500S                     | BT | 938BE | 1              | 1.426          | 0.100           | \$124.26   |
| 6505015032390 | FLUORESCEIN SODIUM OPTHALMIC STRIPS 1MG 100S  | PG | 938BE | 1              | 0.100          | 0.100           | \$10.14    |
| 6505015090677 | MOXIFLOX OPTHALORIDE 5MG/ML 0.5% 3ML          | BT | 938BE | 27             | 2.700          | 2.700           | \$3,429.27 |
| 6505015331574 | NAPHAZOLINE HCL&PHENIRAMINE MAL OPHT SOL 15ML | BT | 938BE | 57             | 5.700          | 5.700           | \$766.08   |
| 6510007863736 | PAD ISOPROPYL ALCOHOL IMPREGNATED WHITE 200S  | PG | 938BK | 1              | 1.000          | 0.100           | \$2.90     |
| 6510009268882 | TAPE ADHESIVE SURG POROUS WOVEN 1INX10YD 12S  | PG | 938BK | 1              | 1.040          | 0.040           | \$17.57    |
| 6510011077575 | PAD EYE COTTON GAUZE 2.5X2IN 50S              | PG | 938AA | 1              | 0.470          | 1.000           | \$10.43    |
| 6515009051473 | APPLICATOR PLAS/WOOD ROD 6IN STER 2000S       | PG | 938BF | 1              | 0.650          | 0.650           | \$41.18    |
| 6515014618933 | GLOVE PATIENT EXAM 9.5IN N-DEX NITR MED 100S  | PG | 938BK | 5              | 6.650          | 0.850           | \$86.15    |

| <b>NSN</b>    | <b>Supply description</b>                      | <b>UI</b> | <b>938AS</b> | <b>Total qty<br/>(UI)</b> | <b>Total wt<br/>(lbs)</b> | <b>Total cube<br/>(cf)</b> | <b>Total cost</b> |
|---------------|------------------------------------------------|-----------|--------------|---------------------------|---------------------------|----------------------------|-------------------|
| 6515014915719 | GLOVE PATIENT EXAM PURPLE SZ<br>10 LARGE 100S  | PG        | 938BK        | 5                         | 1.450                     | 1.350                      | \$85.00           |
| 8105005798451 | BAG PLASTIC 38X36IN PLASHEAT<br>SEAL 25LB 100S | PG        | 938BM        | 1                         | 3.000                     | 1.000                      | \$14.72           |

## REPORT DOCUMENTATION PAGE

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| <b>1. REPORT DATE (DD MM YY)</b><br>09 11 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                             | <b>2. REPORT TYPE</b><br>Technical Document |                                  | <b>3. DATES COVERED (from - to)</b><br>Mar 2010-Sep 2010                                                                                                                                                              |  |
| <b>4. TITLE:</b><br>U.S. Air Force Operational Medicine: Using the Enterprise Estimating Supplies Program to Develop Materiel Solutions for the Air Force Optometry Augmentation Team (FFDOT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                             |                                             |                                  | <b>5a. Contract Number:</b> GS-09K-99BHD<br><b>5b. Grant Number:</b><br><b>5c. Program Element Number:</b><br><b>5d. Project Number:</b><br><b>5e. Task Number:</b> 9T7SDGIS006<br><b>5f. Work Unit Number:</b> 60334 |  |
| <b>6. AUTHORS</b><br>Hopkins, Curt C.; Nix, Ralph E.; Wing, Vern; Brown, Carrie; Jackson, Charles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                             |                                             |                                  |                                                                                                                                                                                                                       |  |
| <b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</b><br>Commanding Officer<br>Naval Health Research Center<br>140 Sylvester Rd<br>San Diego, CA 92106-3521                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                             |                                             |                                  |                                                                                                                                                                                                                       |  |
| <b>8. SPONSORING/MONITORING AGENCY NAMES(S) AND ADDRESS(ES)</b><br>Commanding Officer<br>Naval Medical Research Center<br>503 Robert Grant Ave<br>Silver Spring, MD 20910-7500<br>Commander<br>Navy Medicine Support Command<br>P.O. Box 140<br>Jacksonville, FL 32212-0140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                             |                                             |                                  | <b>8. PERFORMING ORGANIZATION REPORT NUMBER</b><br><br>Tech Doc No. 10-13M                                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                             |                                             |                                  | <b>10. SPONSOR/MONITOR'S ACRONYM(S)</b><br>NMRC/NMSC                                                                                                                                                                  |  |
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| <b>12. DISTRIBUTION/AVAILABILITY STATEMENT</b><br>Approved for public release; distribution is unlimited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                             |                                             |                                  |                                                                                                                                                                                                                       |  |
| <b>13. SUPPLEMENTARY NOTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                             |                                             |                                  |                                                                                                                                                                                                                       |  |
| <b>14. ABSTRACT</b><br><p>The Naval Health Research Center (NHRC) has used its modeling and simulation (M&amp;S) expertise to develop and update conventional U.S. Air Force medical assets since 2004. This study leveraged medical M&amp;S to provide recommendations for allowance standard configurations for the Air Force Optometry Augmentation Team (FFDOT) operational and clinical requirements. The result is an operationally based and patient-driven recommended 917Q line list.</p> <p>Unit Type Code capabilities, operational requirements, and materiel solutions were identified, and issues of modernization, clinical requirement, standardization, and redundancy were addressed. Total changes resulted in a reduction in weight by 31%, cube by 22%, and cost by 4%, or \$9,500.</p> |                            |                             |                                             |                                  |                                                                                                                                                                                                                       |  |
| <b>15. SUBJECT TERMS</b><br>modeling and simulation, Expeditionary Medical Knowledge Warehouse, EMedKW, allowance standard, U.S. Air Force, Optometry Augmentation Team, FFDOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                             |                                             |                                  |                                                                                                                                                                                                                       |  |
| <b>16. SECURITY CLASSIFICATION OF:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                             | <b>17. LIMITATION OF ABSTRACT</b><br>UNCL   | <b>18. NUMBER OF PAGES</b><br>20 | <b>18a. NAME OF RESPONSIBLE PERSON</b><br>Commanding Officer                                                                                                                                                          |  |
| <b>a. REPORT</b><br>UNCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>b. ABSTRACT</b><br>UNCL | <b>c. THIS PAGE</b><br>UNCL |                                             |                                  | <b>18b. TELEPHONE NUMBER (INCLUDING AREA CODE)</b><br>COMM/DSN: (619) 553-8429                                                                                                                                        |  |