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SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)

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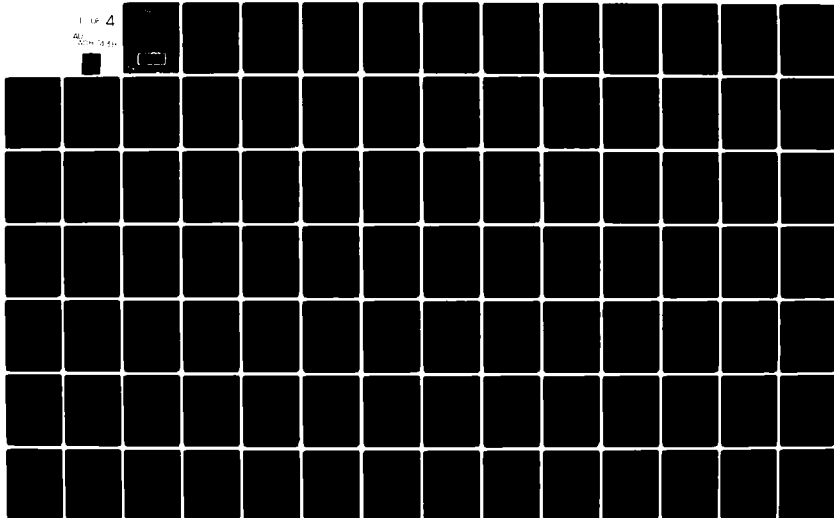
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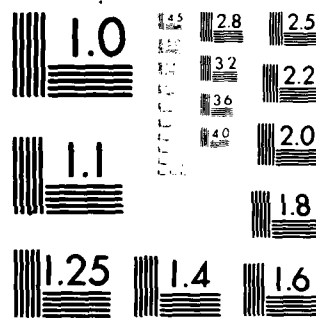
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AD-A087 438





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

LEVEL

PART 3 OF 3

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**SURFACE EFFECT SHIP
STRUCTURAL PRODUCIBILITY**

Part 3.

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APPENDIX B / ASSEMBLY WELDING AND BONDING PROCEDURES

This appendix contains the welding and bonding procedures used in fabrication of the 3KSES panel and element structural test assemblies. The welding procedures were developed generally in accordance with the requirements for development of weld procedures for 3KSES production welds. The adhesive bonding procedures were designed for use without special jigs or fixtures in order to provide a procedure suitable for use as an in-service repair by operating personnel.

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Butt Weld Procedures for Structural Test Program.

Metal Thickness (Inches)	Weld Position (1)	Weld (3) Passes	Electrode Diameter (in)	Welding Equipment (2)	Arc Travel (IPM)	Direct Current (Amps)	Arc Voltage (Volts)	Shielding Gas	Gas Flow Rate (CFH)
.160-.180	V	1	.047	S/A	NA	100-130	20-22	Argon	40-50
.160-.200	F	1	.063	A	35-46	240-270	20-24	Argon	40-50
.250	V	1	.047	S/A	NA	120-155	22-24	Argon	40-50
.250	V	IF IR	.047	S/A	NA	130-150	21-23	Argon	40-50
.250-.281	F	1	.063	A	21-24	285-320	18-25	Argon	40-50
.344-.375	F	1	.063	A	11-18	320-325	21-28	Argon	40-50
.160	F	1	.047	M	24-26	135-165	21-23	Argon	40-50
.250	F	1	.047	M	21-23	205-235	25-27	Argon	40-50
.313	F	IF IR	.047	M	20-22	170-200	23-25	Argon	40-50
.313	F	1	.063	M	17-19	225-255	24-26	Argon	40-50
.344	F	2	.047	M	19-21	190-220	23-25	Argon	40-50
.344	V	2	.047	S/A	NA	160-190	23-25	Argon	40-50
.375	V	2	.047	S/A	NA	145-175	22-24	Argon	40-50
.375	F	2	.047	M	18-20	195-225	24-26	Argon	40-50
.375	F	2	.063	M	18-23	220-275	25-27	Argon	40-50
.500	V	2F 2R	.063	S/A	NA	170-200	22-25	Argon	40-50
.500	F	2	.063	M	17-19	245-275	25-27	Argon	40-50
.750	F	2F 2R	.063	M	17-19	260-290	26-28	Argon	40-50

NOTES: 1. F=Flat; V=Vertical

2. S/A= Semi-automatic; A=Automatic; M=Machine (Pacer TM)

3. F = Face; R = Root

Fillet Weld Procedures for Structural Test Program.

Metal Thickness		Weld Position (1)	Weld Passes Per Fillet	Electrode Diameter	Welding Equip. (2)	Arc Travel (IPM)	Direct Current (Amps)	Arc Voltage (Volts)	Shielding Gas	Gas Flow Rate (CFH)
Plate	Web									
.160	.160	H	1	.047	M	53-55	215-245	21-23	Argon	25-35
.160	.160	V	1	.047	M	31-33	150-180	19-21	Argon	25-35
.160	.160 ⁽³⁾	V	1	.047	M	27-29	150-180	19-21	Argon	25-35
.160	.160-.200	H	1	.047	S/A	NA	170-200	22-24	Argon	40-45
.180	.180	H	1	.047	M	48-50	225-245	22-24	Argon	25-35
.200	.200-.375	H	1	.063	M	43-45	250-280	22-24	Argon	25-35
.200	.250	H	1	.047	S/A	NA	190-220	23-25	Argon	40-45
.200	.281	H	1	.047	S/A	NA	195-225	24-26	Argon	40-45
.250	.250	H	1	.047	S/A	NA	200-230	23-25	Argon	40-45
.250	.250	V	1	.047	S/A	NA	165-195	23-25	Argon	40-50
.250	.281	V	1	.047	S/A	NA	180-210	23-25	Argon	40-50
.250	.281-.313	H	1	.063	M	31-33	260-280	24-26	Argon	25-35
.281	.281	V	1	.063	M	17-19	180-210	22-24	Argon	25-35
.281	.281 ⁽³⁾	H	1	.063	M	24-26	305-330	27-29	Argon	25-35
.313	.313	H	1	.063	M	24-26	305-325	27-29	Argon	25-35
.313	.313 ⁽³⁾	V	1	.063	M	17-19	200-230	24-26	Argon	25-35
.313	.313	V	1	.063	M	17-19	200-230	24-26	Argon	25-35
.344	.375	H	1	.063	S/A	NA	255-285	25-27	Argon	25-35
.344	.375	H	1	.063	M	17-19	290-320	28-30	Argon	25-35
.500	.250	H	1	.047	S/A	NA	220-250	25-27	Argon	40-50
.500	.344	H	1	.063	S/A	NA	235-265	25-27	Argon	40-50
.750	.750 ⁽⁴⁾	H	2	.063	M	18-20	340-370	29-31	[Argon (60)]	40-50
				.063	S/A	NA	295-325	29-31	[Helium(40)]	40-50

NOTES: 1. H=Horizontal; V=Vertical
 2. M=Machine (WigglerTM); S/A=Semi-automatic
 3. Full Penetration Tee Joints
 4. First pass on each side with Machine (WigglerTM); Remaining Passes with Semi-Automatic equipment.

ADHESIVE BONDING PROCEDURES
FOR WELD REINFORCEMENT LAMINATED DOUBLERS
ON FABRICATION ASSY TT802024-57
(TEST SPECIMENS TT802022-205-F1, -F2, & -F3)

- References: a) RMI Drawing TT802024
b) RMI Drawing TT802022
c) RMI Manufacturing Plan for Comp. No. TT802024-57

The procedures outlined below have been established for use in preparing and adhesive bonding doubler laminations over designated weld joints in Assy. No. TT802024-57. Two separate procedures and bond systems have been defined with specific application requirements in order to acquire comparative data.

The procedures outlined below supercede flag notes 25 and 26 on the reference (a) drawing. Accomplishment of these procedures also fulfills the requirements of Steps 600 and 610 of the reference (c) planning package.

PROCEDURE FOR ASSY TT802022-205-F1 and -F2

- 1) Accumulate weld assemblies identified "022-205-F1" and "022-205-F2" plus 8 each doubler details TT802024-151 and -153 plus 2 each doubler details TT802024-155, -157 and -159.
- 2) Process clean weld assemblies and details of Step 1 per attached Procedure SVBP-01.
- 3) Apply Hysol primer EA-9203 per attached Procedure SVBP-02 to all surfaces to be bonded.
- 4) Apply Hysol adhesive EA-9309.1 and bond doubler laminates in positions designated by reference (a) using attached Procedure SVBP-03.

PROCEDURE FOR ASSY TT802022-205-F3

- 1) Accumulate weld assembly identified "022-205-F3" plus 4 each doubler details TT802024-151 and -153 plus 1 each doubler details TT802024-155, -157 and -159.
- 2) Process clean weld assembly and details of Step 1 per attached Procedure SVBP-01.
- 3) Apply American Cyanamid/Bloomingtondale primer BR-127 per attached Procedure SVBP-04 to all surfaces to be bonded.
- 4) Apply Hysol adhesive EA-9314 and bond doubler laminates in positions designated by reference (a) using attached Procedure SVBP-05.
- 5) Sign and date steps 600, 610, and 620 of reference (c) attached to certify completion of specified tasks.

Attachments: Procedures SVBP-01 through SVBP-05.

PROCEDURE SVBP-01

PROCESS CLEANING FOR ADHESIVE BONDING 5456 ALUMINUM ALLOY

CAUTION: Use appropriate precautions in preparing and applying the hazardous chemical solutions required in this cleaning process.

NOTE: All process cleaned parts prepared for adhesive bonding must be handled with clean white gloves only. Handling bond faying surfaces must be kept to an absolute minimum.

- 1) Degrease all surfaces of details and entire sides of large assemblies on which bonding will be performed. Degrease using clean white cotton rags or cheesecloth thoroughly dampened with aliphatic naptha. Wipe surfaces completely dry with clean cloths.
- 2) Using "Scotch-Brite" pads and water, thoroughly abrade surface areas to be bonded until all oxides and discolorations have been removed. Abraded areas should extend approximately 3/4 inch beyond periphery of bond faying surfaces.
- 3) Hand wipe abraded surfaces with clean cheesecloth saturated with alkaline cleaner (GMC 528 or equivalent) to remove abrasive materials and fingerprint contamination. If alkaline cleaner is not available, aliphatic naptha may be substituted. After using aliphatic naptha, wipe surfaces completely dry with clean cloths.
- 4) Spray rinse with room temperature demineralized water to remove all cleaner residue. Inspect for water break-free surfaces at areas to be bonded. (A water break-free surface maintains a continuous demineralized water film on a vertical surface for at least 15 seconds.) Areas to be bonded that do not exhibit the water break-free surface require reprocessing. Although a spray rinse is preferred, hand wiping using cheesecloth thoroughly saturated with demineralized water is an acceptable alternate rinse method. The water break-free surface must still be achieved if hand wiping is employed. Remove

PROCEDURE SVBP-01 (Continued)

excess water by wiping with clean cloths.

- 5) Acid etch each area to be bonded by applying a coating of the following paste:

- a) Demineralized water 350 grams
- b) Sulphuric acid 125 grams
- c) Sodium dichromate 35 grams
- d) Barium sulphate 750 grams

Allow paste to remain in place 20 minutes. At the end of this period, remove paste by wiping. Before any residual paste can dry, thoroughly rinse entire part in the manner described in step (4) above to remove all residue.

- 6) Dry cleaned parts completely in air or oven (150°F maximum temperature).
- 7) Protect cleaned parts from contamination prior to the application of adhesive primer by wrapping parts or suitably covering cleaned surfaces with clean Kraft paper.

NOTE: Adhesive primer must be applied to cleaned bond area surfaces within 3 hours after cleaning.

PROCEDURE SVBP-02
EA-9203 PRIMER APPLICATION

(See manufacturer's instruction sheets for additional information and cautions.)

- 1) Apply primer to designated part bond areas within 3 hours after parts have been cleaned.
- 2) Handle all cleaned parts prepared for bonding with clean white cotton gloves only. Handling of bond area faying surfaces must be kept to an absolute minimum.
- 3) Use EA-9203 primer as supplied. Apply thin coating of primer by spraying or brushing to each faying surface to be bonded. Apply primer only sufficient to wet the adherend surface.
- 4) Before primer cures, remove any excess by wiping with a clean cloth saturated with denatured alcohol.
- 5) Dry primer coated surfaces a minimum of one hour at 75°F.
- 6) Protect primed parts from contamination prior to bonding by wrapping parts or suitably covering primed surfaces with clean Kraft paper.

PROCEDURE SVBP-03

EA-9309.1 ADHESIVE BONDING

(See manufacturer's instructions for additional information and cautions.)

- 1) Handle all primer-coated parts preparatory to and during bonding with clean white cotton gloves only to protect bond faying surfaces from contamination and to minimize staining of the hands. Handling of bond faying surfaces must be kept to an absolute minimum.
- 2) Using clean cheesecloth, double solvent wipe each primed bond faying surface with aliphatic naptha. Remove residual solvent by wiping with clean dry cheesecloth, and allow surface to thoroughly dry. Fan forced air may be used if necessary to accelerate the drying process.
- 3) Combine adhesive components -100 parts A with 20 parts B by weight - and mix thoroughly. Small quantities of Cab-O-Sil (10 percent maximum by volume) may be added to adhesive during mixing to increase viscosity for ease of handling. Pot life for a one pound mass of mixed adhesive at 75°F is approximately 30 minutes.
- 4) Spread a thin layer of mixed adhesive on each surface to be bonded using a spatula or knife-type spreader. Apply sufficient adhesive to thoroughly fill any gaps and form a void-free bond line when parts are assembled. Assemble parts in a manner to avoid entrapment of air pockets within the bond line. Apply pressure (2 to 10 psig) by means of clamps, weights or vacuum to establish and maintain intimate contact until adhesive has cured. Ascertain that parts remain in correct position and alignment after pressure has been applied.
- 5) After bond pressure is applied, remove excess uncured adhesive by scraping and/or wiping with a clean cloth lightly saturated with denatured alcohol. Do not use more alcohol than absolutely necessary. Adhesive expelled from the bond line and/or extending more than 1/2 inch beyond the edge of the bonded detail is considered excess.

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PROCEDURE SVBP-03 (Continued)

- 6) Cure adhesive under full bond pressure for a minimum of 24 hours at a room temperature of 75°F or higher before handling. Parts may be carefully handled after this initial cure period, but full cure requires 7 days at room temperatures of 75°F or higher.

PROCEDURE SVBP-04
BR-127 PRIMER APPLICATION

(See manufacturer's instruction sheets for additional information.)

NOTE: BR-127 Primer is stored at 0°F or below. Primer removed from the freezer and allowed to warm cannot be returned to the freezer. Primer not used within 96 hours after removal from freezer must be discarded.

- 1) Apply primer to designated part bond areas within 3 hours after parts have been cleaned.
- 2) Handle all cleaned parts prepared for bonding with clean white cotton gloves only. Handling of bond area faying surfaces must be kept to an absolute minimum.
- 3) Mark date and time on primer container when removed from freezer. Allow primer material to warm to room temperature prior to opening container. Thoroughly mix primer before application and frequently agitate primer during application since rapid settling occurs.
- 4) Apply BR-127 primer to each faying surface to be bonded. Apply by spray or brush coating to produce a dry primer coating thickness between 0.0001 and 0.0005 inch.
- 5) Cure primer by air drying at least 60 minutes at ambient temperature (65°F or higher) followed by exposure to heat with a minimum time of 30 minutes at a part temperature of $160^{\circ} \pm 15^{\circ}\text{F}$. To test for full cure, solvent wipe primer with acetone; wiper discoloration indicates incomplete cure.
- 6) Protect primed parts from contamination prior to bonding by wrapping parts or suitably covering primed bond surfaces with clean Kraft paper.

PROCEDURE SVBP-05
EA-9314 ADHESIVE BONDING

(See manufacturer's instruction sheets for additional information and cautions.)

NOTE: EA-9314 adhesive, when mixed, is very thixotropic and will not sag or slump on vertical surfaces.

CAUTION: EA-9314 adhesive contains asbestos fibers. Suitable breathing protection must be worn when grinding or sanding cured adhesive.

- 1) Handle all primer-coated parts preparatory to and during bonding with clean white cotton gloves only to protect bond faying surfaces from contamination and to minimize staining of the hands. Handling of bond faying surfaces must be kept to an absolute minimum.
- 2) Using clean cheesecloth, double solvent wipe each primed bond faying surface with aliphatic naptha. Remove any residual solvent by wiping with clean dry cheesecloth, and allow surface to thoroughly dry. Fan forced air may be used if necessary to accelerate the drying process.
- 3) Combine adhesive components - 2 parts A with 1 part B by weight or 3 parts A with 1 part B by volume - and mix thoroughly. Pot life for a one pound mass of mixed adhesive at 75°F is approximately 40 minutes.
- 4) Spread a thin layer of mixed adhesive on each surface to be bonded using a spatula or knife-type spreader. Apply sufficient adhesive to thoroughly fill any gaps and form a void-free bond line when parts are assembled. Assemble parts in a manner to avoid entrapment of airpockets within the bond line. Apply pressure (2 to 15 psig) by means of clamps, weights, or vacuum to establish and maintain intimate contact until adhesive has cured. Ascertain that parts remain in correct position and alignment after pressure has been applied.

PROCEDURE SVBP-05 (Continued)

- 5) After bond pressure is applied, remove excess uncured adhesive by scraping and/or wiping with a clean cloth lightly saturated with denatured alcohol. Do not use more alcohol than absolutely necessary. Adhesive expelled from the bond line and/or extending more than 1/2 inch beyond the edge of the bonded detail is considered excess.
- 6) Cure adhesive under full bond pressure for a minimum of 36 hours at a room temperature between 65° and 85 F before handling.

APPENDIX C / WELDED PLATE SPECIMEN TABULATED DATA

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1 / STATIC TEST DATA

This section contains various detailed data pertinent to the welded plate coupon static tensile tests.

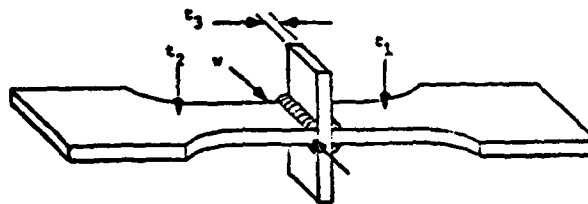
1.1 SPECIMEN DIMENSIONS

Specimen pretest measurement locations and the actual test section dimensions for each static test specimen are presented in Figure C-1 and Table C-1, respectively.

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(a) Transverse Butt Joint Specimen



(b) Transverse Cruciform Joint Specimen

Figure C-1. Welded Plate Specimen Pretest Measurement Locations

Table C-1. Welded Plate Specimen Pretest Measurements (Sheet 1 of 3)

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	△ OFFSET A	△ OFFSET B
Butt Jt.	016-3-1	.187	.309		1.407	1.400	1.439		
	-3-2	.187	.307		1.405	1.406	1.434		
	-7-1	.311	.315		1.502	1.503	1.503	.080	
	-7-2	.3115	.315		1.505	1.505	1.505	.080	
	-9-1	.125	.3125		1.503	1.505	1.506	.080	
	-9-2	.126	.3115		1.501	1.501	1.502	.080	
	-21-1	.314	.316		1.504	1.505	1.505		
	-21-2	.315	.316		1.504	1.504	1.504		
	-21-3	.311	.312		1.506	1.505	1.504		
	-25-1	.312	.313		1.503	1.502	1.502	.060	
	-25-2	.305	.313		1.507	1.506	1.507	.080	
	-27-1	.188	.314		1.504	1.505	1.503	.180	.065
	-27-2	.187	.314		1.504	1.504	1.504	.190	.065
	-33-1	.302	.310		1.503	1.503	1.504		
	-33-2	.312	.311		1.493	1.493	1.494		
	-43-1	.3145	.3145		1.506	1.504	1.506	.060	
	-43-2	.3145	.3145		1.506	1.506	1.506	.060	
	-47-1	.3135	.3125		1.506	1.507	1.507	.065	
	-47-2	.3125	.312		1.500	1.500	1.499	.065	
	-53-1	.3145	.3145		1.506	1.506	1.506		
	-53-2	.3145	.3145		1.507	1.507	1.507		
	-53-3	.3155	.3155		1.506	1.506	1.506		
	-119-1	.3165	.313		1.502	1.501	1.501		
	-119-2	.3115	.316		1.506	1.507	1.507		
	-123-1	.315	.315		1.502	1.499	1.499	.160	
	016-123-2	.315	.317		1.503	1.503	1.503	.170	
	016-9-3X	.187	.3125		1.503	1.503	1.502	.080	.180
Butt Jt.	016-9-4X	.187	.3125		1.499	1.499	1.499	.080	.190

NOTE: Reference Figure C-1
for measurement locations.

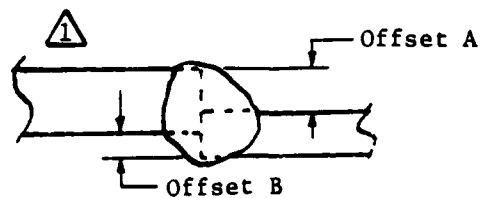


Table C-1. Welded Plate Specimen Pretest Measurements (Sheet 2 of 3)

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	△ OFFSET A	△ OFFSET B
Butt Jt.	016-127-1	.378	.505		1.507	1.523	1.524	.165	.250
	-127-2	.378	.505		1.507	1.505	1.508	.160	.290
	-135-1	.3130	.3130		1.502	1.502	1.502		
	-135-2	.3115	.3115		1.506	1.506	1.506		
Butt Jt.	-135-3	.3105	.3105		1.511	1.511	1.511		
Cruciform Jt.	-201-1	.183	.185	.185	1.506	1.506	1.506		
	-201-2	.185	.184	.185	1.507	1.506	1.506		
	-201-3	.185	.184	.185	1.502	1.502	1.502		
	-205-1	.5055	.505	.505	1.509	1.510	1.509		
	-205-2	.5055	.505	.505	1.499	1.499	1.498		
	-205-3	.506	.505	.505	1.505	1.506	1.505		
	-209-1	.760	.760	.761	1.511	1.512	1.510		
	-209-2	.760	.761	.761	1.506	1.507	1.506		
Cruciform Jt.	-209-3	.760	.761	.759	1.511	1.512	1.511		
Butt Jt.	-301-1	.195	.194		1.508	1.509	1.508		
	-301-2	.193	.192		1.505	1.507	1.506		
	-301-3	.194	.194		1.506	1.507	1.507		
	-303-1	.194	.194		1.509	1.509	1.509		
	-303-2	.193	.193		1.503	1.503	1.503		
	-303-3	.193	.193		1.500	1.500	1.500		
	-305-1	.1945	.1945		1.504	1.504	1.504		
	-305-2	.1950	.1950		1.505	1.503	1.504		
	-305-3	.1950	.1950		1.504	1.505	1.505		
	-307-1	.1945	.1955		1.506	1.507	1.507		
	-307-2	.1935	.1945		1.503	1.503	1.504		
Butt Jt.	016 -307-3	.1950	.1942		1.510	1.509	1.509		

NOTE: Reference Figure C-1
for measurement locations.

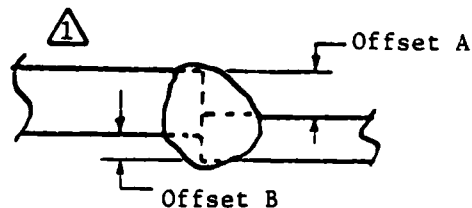


Table C-1. Welded Plate Specimen Pretest Measurements (Sheet 3 of 3)

(All dimensions in inches)

[illegible]

NOTE: Reference Figure C-1 for measurement locations.

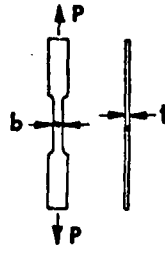
1.2 TEST DATA SHEETS

Copies of the test laboratory data sheets summarizing the recorded data for all welded plate specimen static tensile tests are provided on the following five pages. Minor additions and deletions have been made where necessary for clarification.

TER073

TIR TG. NO. <u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION <u>ASTM E-8</u>
WORK ORDER <u>444-11-0-40</u>	TEST REPORT	SPECIMEN DATE NO.
REQUESTER <u>F. W. P. R.</u>		

STATIC TENSION PLATE/SHEET



TEST TEMP ROOM °F

BASE MAT'L. 5456 AL.

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A B B = t (in) ²	YIELD		ULTIMATE		% ELONG GL 2 1/2"	TYPE OF FAILURE	OFFSET
				LOAD (lbs.)	ksi	LOAD (lbs.)	ksi			
016-3-1	1.499	1.87	.280	7250	22.4	13,000	41.4	8.5	EDGE OF WELD	
-3-2	1.496	1.87	.280	8050	23.8	12,850	43.9	7.0	EDGE OF WELD	
016-7-1	1.503	3.11	.467	9250	21.1	19,950	42.7	3.5	EDGE OF WELD	.080
-7-2	1.505	3.115	.469	9200	19.6	19,900	42.2	8.5	EDGE OF WELD	.050
016-9-1	1.505	1.85	.278	5900	20.9	11,000	39.6	7.0	EDGE OF WELD	.030
-9-2	1.501	1.86	.279	5250	21.0	10,000	38.0	6.7	EDGE OF WELD	.030
016-21-1	1.505	3.14	.472	15125	32.0	22,500	47.6	10.7	EDGE OF WELD	
-21-2	1.504	3.15	.473	15400	32.5	22,650	47.8	11.3	EDGE OF WELD	
-21-3	1.505	3.11	.469	15300	32.7	22,500	48.1	10.5	EDGE OF WELD	
016-25-1	1.502	3.13	.468	—	—	19,850	42.4		WELD	.050
-25-2	1.500	3.13	.471	9050	19.2	19,950	42.3	13.2	WELD	.080
016-27-1	1.504	1.88	.282	6550	23.2	11,350	40.1	6.1	EDGE OF WELD	.120-.065
-27-2	1.504	1.87	.281	—	—	11,650	41.5		EDGE OF WELD	.065-.190
016-33-1	1.503	3.10	.465	9700	20.8	20,350	43.7	9.9	WELD	
-33-2	1.493	3.11	.464	—	—	21,200	45.7		WELD	
016-43-1	1.504	3.145	.473	9500	20.1	21,400	45.2	12.9	WELD	.060
-43-2	1.506	3.145	.473	9900	20.9	20,850	44.0	12.1	WELD	.060
016-47-1	1.506	3.125	.471	9950	21.1	20,300	43.1	2.5	EDGE OF WELD	
-47-2	1.500	3.12	.468	10,050	21.5	20,000	42.7	8.5	EDGE OF WELD	
016-53-1	1.506	3.145	.473	11,500	30.6	22,800	48.1	16.5	WELD	
-53-2	1.507	3.145	.474	14,600	30.8	23,150	46.7	13.3	WELD	
-53-3	1.506	3.155	.475	14,750	31.0	21,300	44.8	10.3	EDGE OF WELD	
016-119-1	1.501	3.12	.468	16,450	35.9	25,200	53.6	13.1	BASE METAL	
-119-2	1.507	3.115	.464	16,250	34.6	24,950	52.2	14.7	BASE METAL	

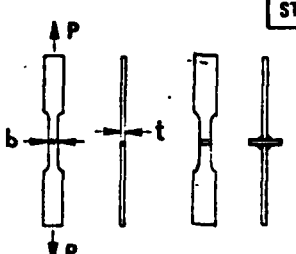
TESTED BY: W. ANDERSEN / WIDMER

DATE: 10/30/77

FORM NO. 3922 0

△ Data for specimens no. 016-9-3 and 016-9-4 shown on next page.

TER073

TIM TG. NO. 2991		ENGINEERING LABORATORY		TEST SPECIFICATION SPECIMEN DWG. NO.					
WORK ORDER 444-11-0-40		TEST REPORT							
REQUESTER F. WEBER									
STATIC TENSION PLATE/SHEET									
			TEST TEMP. <u>ROOM</u> °F BASE MAT'L. <u>5456 AL</u>						
Butt Cruciform			GRAIN DIRECTION <u>N/A</u>						
SPECIMEN NO.	b (in)	t (in)	A & B D x t (in) 2	YIELD		ULTIMATE		% ELONG GL 2 10	TYPE OF FAILURE
				LOAD (lbs.)	KSI	LOAD (lbs.)	KSI		
016-1231	1.499	.315	.4722	—	—	16100	34.1		WELD .160
-1232	1.503	.317	.4765	8500	17.9	15450	32.4	11.4	WELD .170
016-1271	1.503	.372	.5681	—	—	23722	40.0		EQ. WELD .250/.165
-1272	1.507	.378	.5696	12850	22.6	21900	39.3	5.8	Base Metal .162/.290
016-1351	1.502	.3120	.4701	14500	30.8	22300	42.2	13.8 4.8	WELD
-1352	1.506	.3115	.4691	15650	33.4	22450	47.9	14.2 4.8	WELD
-1353	1.511	.3105	.4692	15150	32.3	22700	48.6	13.9 5.0	WELD
016-2011	1.506	.193	.2756	9050	32.8	11750	42.6	4.2	WELD
-2012	1.506	.134	.2771	9350	33.7	11750	42.4	4.2	WELD
-2013	1.502	.184	.2764	9200	33.3	11900	43.1	4.3	WELD
016-2051	1.509	.505	.7122	22100	26.4	23200	39.5	4.6	WELD
-2052	1.499	.505	.7370	20900	27.6	20200	39.9	4.7	WELD
-2053	1.505	.505	.7600	20700	27.2	23700	39.1	4.5	WELD
016-3021	1.510	.760	1.145	34750	30.3	51400	44.8	4.9	WELD
-3022	1.506	.760	1.145	34600	30.2	53300	44.6	4.5	WELD
-3023	1.511	.759	1.147	34500	30.1	52450	45.7	4.5	WELD
016-3041	1.503	.194	.2927	7200	21.6	11650	39.5	6.8	WELD
-3042	1.507	.192	.2903	6300	21.8	11250	39.9	7.5	WELD
-3043	1.507	.194	.2924	7200	24.6	11000	37.6	6.0	WELD
016-3231	1.509	.194	.2927	6950	23.7	11500	39.1	5.3	WELD
-3232	1.508	.193	.2910	6950	23.9	10500	36.1	5.2	WELD
-3233	1.510	.193	.2914	6750	23.3	10650	36.5	5.2	WELD
016-3241	1.490	.155	.2773	6500	21.6	11050	39.9	6.4	WELD
016-3242	1.502	.156	.2793	6450	23.1	11000	39.4	6.5	WELD

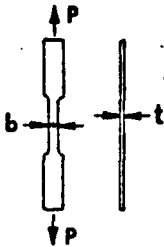
Cruciform

TESTED BY:

DATE:

FORM NO. 7027-0

TERO73

TIR TO, NO.	<u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION <u>ASTM E-8</u>
WORK ORDER	<u>444-11-D-40</u>	TEST REPORT	
REQUESTER	<u>F. WEBER</u>		
		STATIC TENSION PLATE/SHEET TEST TEMP <u>ROOM</u> °F BASE MAT'L. <u>5456 AL.</u> GRAIN DIRECTION <u>N/A</u>	

SPECIMEN NO.	b (in)	t (in)	A = .001 (in)²	YIELD		ULTIMATE		% ELONG GL <u>3.0</u>	TYPE OF FAILURE
				LOAD (lbs.)	KSI	LOAD (lbs.)	KSI		
016-305-1	1.504	.1945	2925	6875	23.5	9100	32.8	4.9	WELD
-305-2	1.503	.1950	2931	7150	24.4	13500	46.1	10.8	EDGE OF WELD
-305-3	1.505	.1950	2935	6550	22.3	13250	45.1	10.0	EDGE OF WELD
016-307-1	1.507	.1950	2939	6975	23.7	9750	33.2	4.9	WELD
-307-2	1.503	.1940	2916	6500	22.3	9300	31.9	4.1	WELD
-307-3	1.509	.1940	2927	6975	23.8	14100	48.2	12.5	EDGE OF WELD
016-313-1	1.504	.104	2918	7450	25.5	12050	41.3	7.0	WELD
-313-2	1.504	.103	2907	7400	25.5	12100	41.6	7.5	WELD
016-315-1	1.504	.103	2903	6900	23.9	10000	34.4	4.9	WELD
-315-2	1.503	.103	2901	7100	24.2	13100	45.2	9.2	WELD
016-317-1	1.504	.1940	2918	7500	25.7	9650	33.1	4.6	WELD
016-317-2	1.504	.1935	291	8400	28.9	10750	36.9	3.9	WELD FAILURE
016-317-3	1.507	.194	292	8550	29.2	10400	35.6	4.1	WELD FAILURE
-317-4	1.504	.194	2927	7950	26.8	10900	37.2	4.6	WELD
016-317-5	1.501	.319	5530	14850	26.8	24550	44.3	9.1	WELD
-317-6	1.502	.318	5527	15000	27.1	23550	43.2	8.3	WELD
016-321-1	1.504	.351	5350	14330	21.8	21350	40.2	11.4	WELD
-321-2	1.499	.357	5345	14350	21.8	25050	41.8	11.3	WELD
-321-3	1.503	.357	5346	14300	21.6	24000	41.7	9.2	WELD

TESTED BY:
DATE:

TERO73

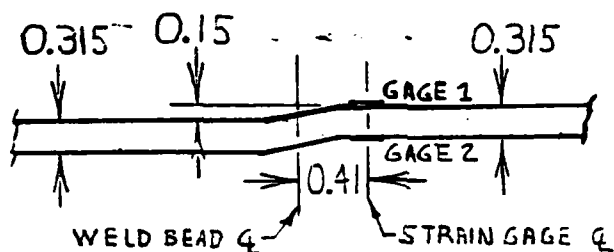
[illegible]

1.3 MISMATCH AND MISALIGNMENT SPECIMEN DATA

Four welded plate coupon specimens fabricated with joint offset mismatch or angular misalignment were each instrumented with a pair of strain gages prior to static tensile testing. The recorded and reduced data from these tests are presented in Tables C-2 through C-7 and Figures C-2 through C-6 on the following pages.

TER073

Table C-2. Static Tensile Test Strain Data - Specimen No. TT802016-25-1



LOAD	STRAIN GAGE RDGS. 		NOTES
	1	2	
0	150	140	
1	142	157	
2	508	198	
3	864	256	
4	1205	304	
5	1584	372	
6	2126	426	
7	3132 *	428	* Unstable
8	4797 *	448	
9	7260 *	472	
10	10570 *	538	
11		714	
12		1130 *	Drifting
13		2100 *	Drifting
14		4050 *	Drifting
15		7860 *	Drifting
16			
17.5			
19.85			Failure

 Readings in units of in./in. x 10⁻⁶

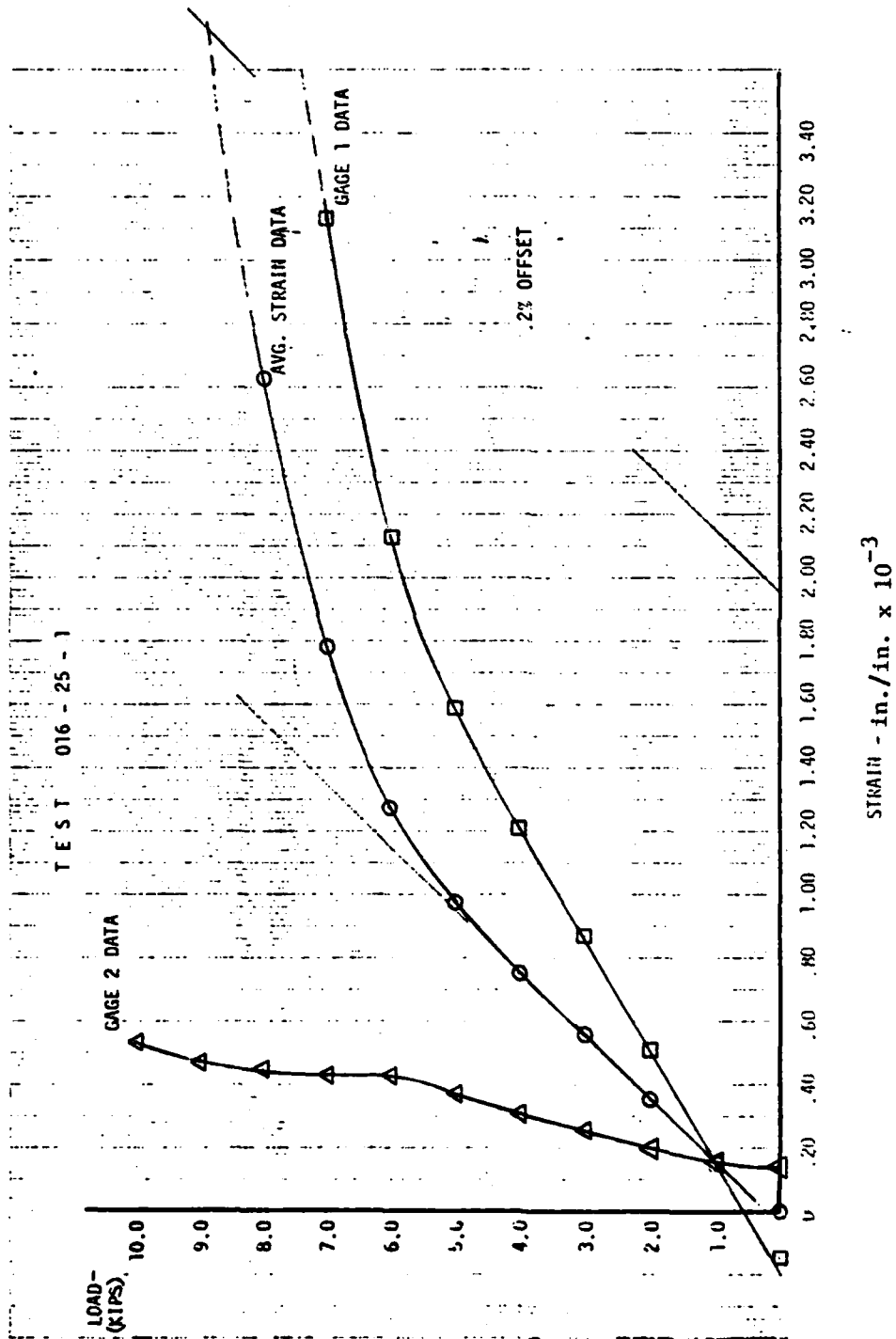
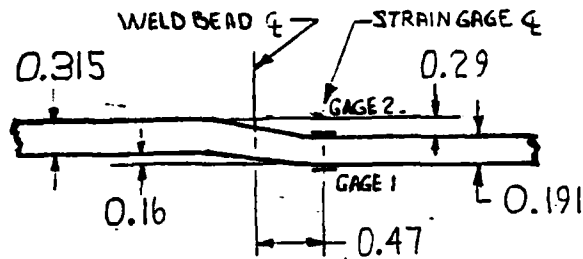


Figure C-2. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-25-1

TER073

Table C-3. Static Tensile Test Strain Data - Specimen No. TT802016-27-2



LOAD (kip)	1 STRAIN GAGE RDGS.		NOTES
	1	2	
0	- 43	74	
0.1	- 44	76	
0.5	- 73	333	
1.0	- 93	571	
1.5	- 111	859	
2.0	- 113	1283	
2.5	- 98	1649	
3.0	- 78	2070	
3.5	- 52	2608	
4.0	- 21	3297	
4.5	20	4271	
5.0	78	5556	
5.5	172	6560 *	* Reading Unstable
6.0	334	5010 *	
6.5	584	4920 *	
7.0	996	4048 *	
7.5	1696 *	3490 *	
8	2764 *	3330 *	
9.0	7804 *	2220 *	
9.5	12480 *	1700 *	
10.	17835 *	1600 *	
10.5	24480 *	1290 *	
11	33745	1240	Failure @ EDGE of Weld Thin Side of Specimen.
11.65	15300	1195	

1 Readings in units of in./in. $\times 10^{-6}$

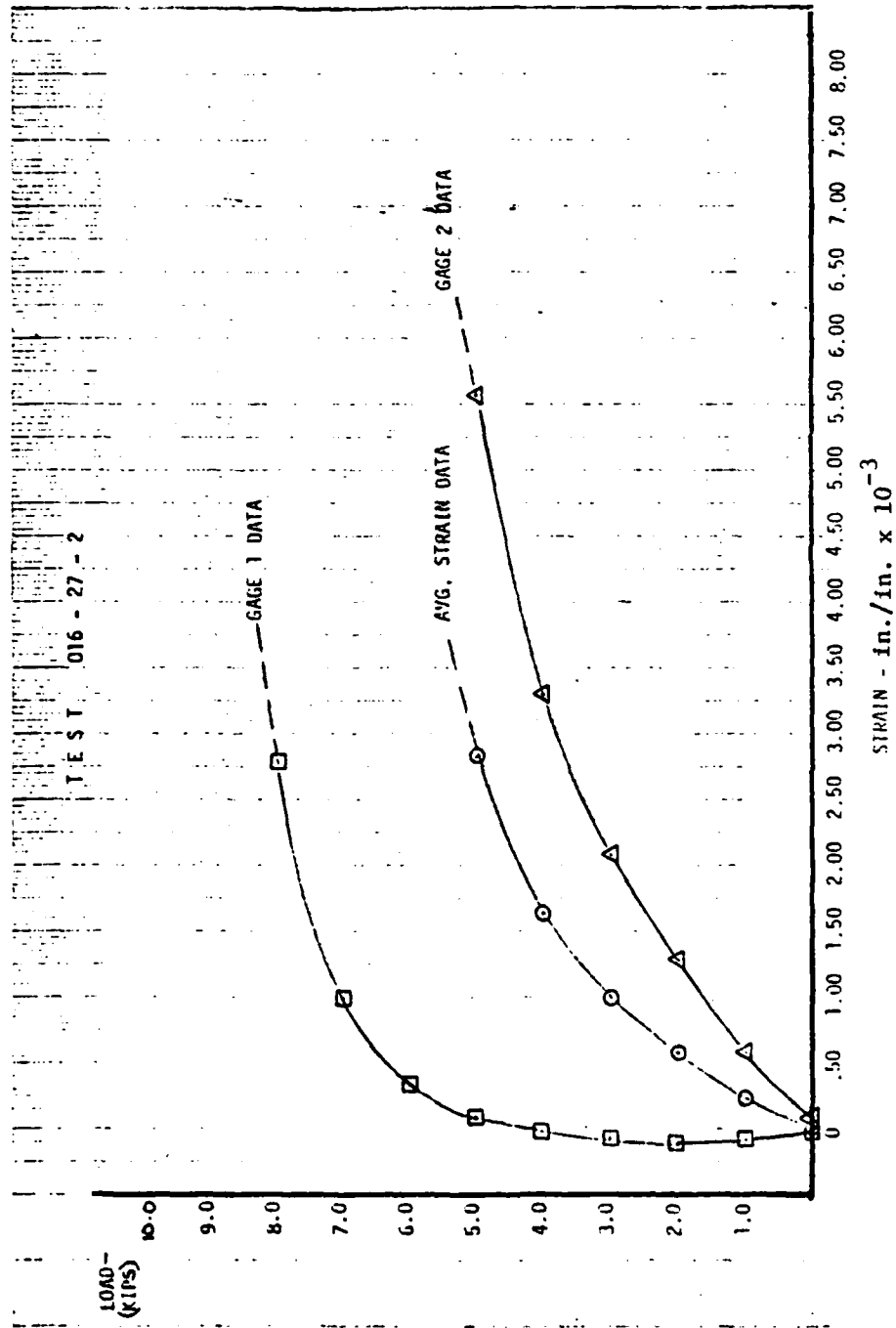
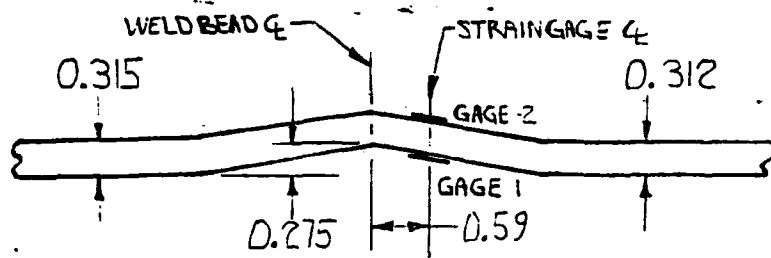


Figure C-3. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-27-2

TER073

Table C-4. Static Tensile Test Strain Data - Specimen No. TT802016-33-2



LOAD (kip)	STRAIN GAGE RDGS. 		NOTES
	1	2	
0	1144	-1100	* Gage Gives No Const. Output From Here On
0.2	1216	-1104	
1	1525	-1170	
2	2180	-1414	
3	3035	-1568	
4	3935	-1632	
5	4814	-1614	
6	5846	-1534	
7	6959	-1390	
8	8200	-1156	
9	9406	- 847	
10	10670	- 468	
11	12006 *	- 16	
12	13560	+ 554	
13	15380	+1318 *	
14	-	+2680	
15	18000	+5590	
16	-	+9470	
17	8000	-	
21.2	8000	-	

 Readings in units of in./in. x 10⁻⁶

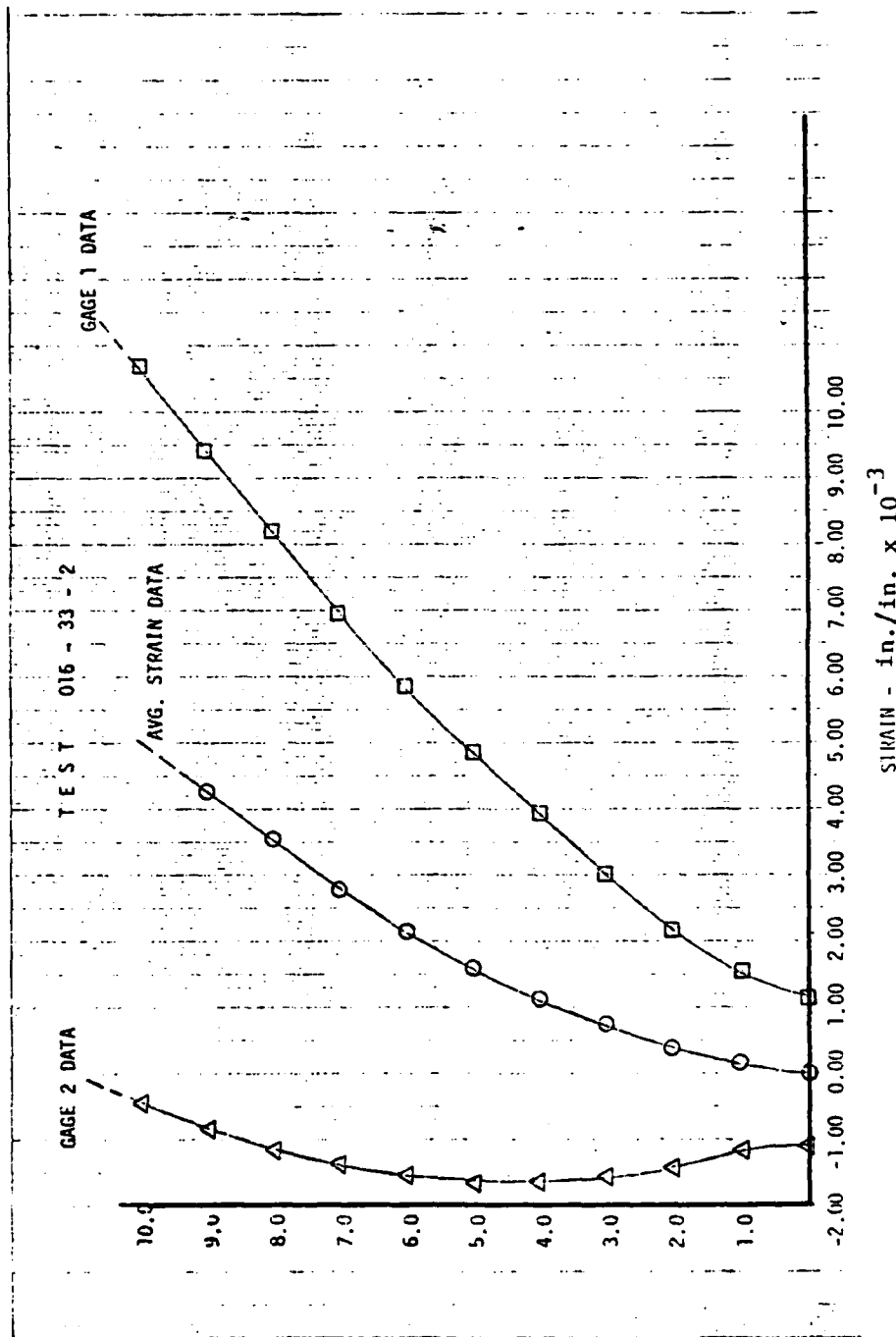
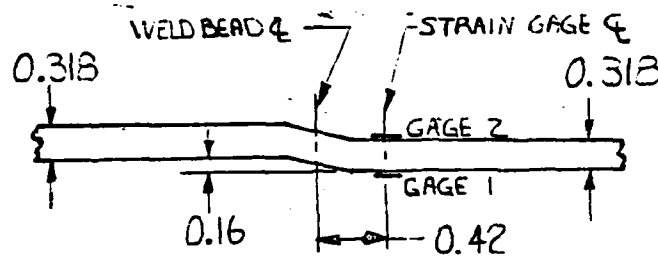


Figure C-4. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-33-2

TER073

Table C-5. Static Tensile Test Strain Data - Specimen No. TT802016-123-1



LOAD (kip)	STRAIN GAGE RDGS. ¹		NOTES
	1	2	
0	- 258	278	* Unstable Load
0.5	- 235	388	
1	- 233	544	
2	- 270	1010	
3	- 315	1475	
4	- 353	1954 *	
5	- 408	2640 *	
6	- 498	3730	
7	- 616	5335	
8	- 812	7744	
9	-1065	10983	
10	-1464	15310 **	
11	-2010	21300	
12	-2532		
13	-2885		
14	-3100		
15	-2905		
16	-2250		
16.1			

¹ Readings in units of in./in. x 10⁻⁶

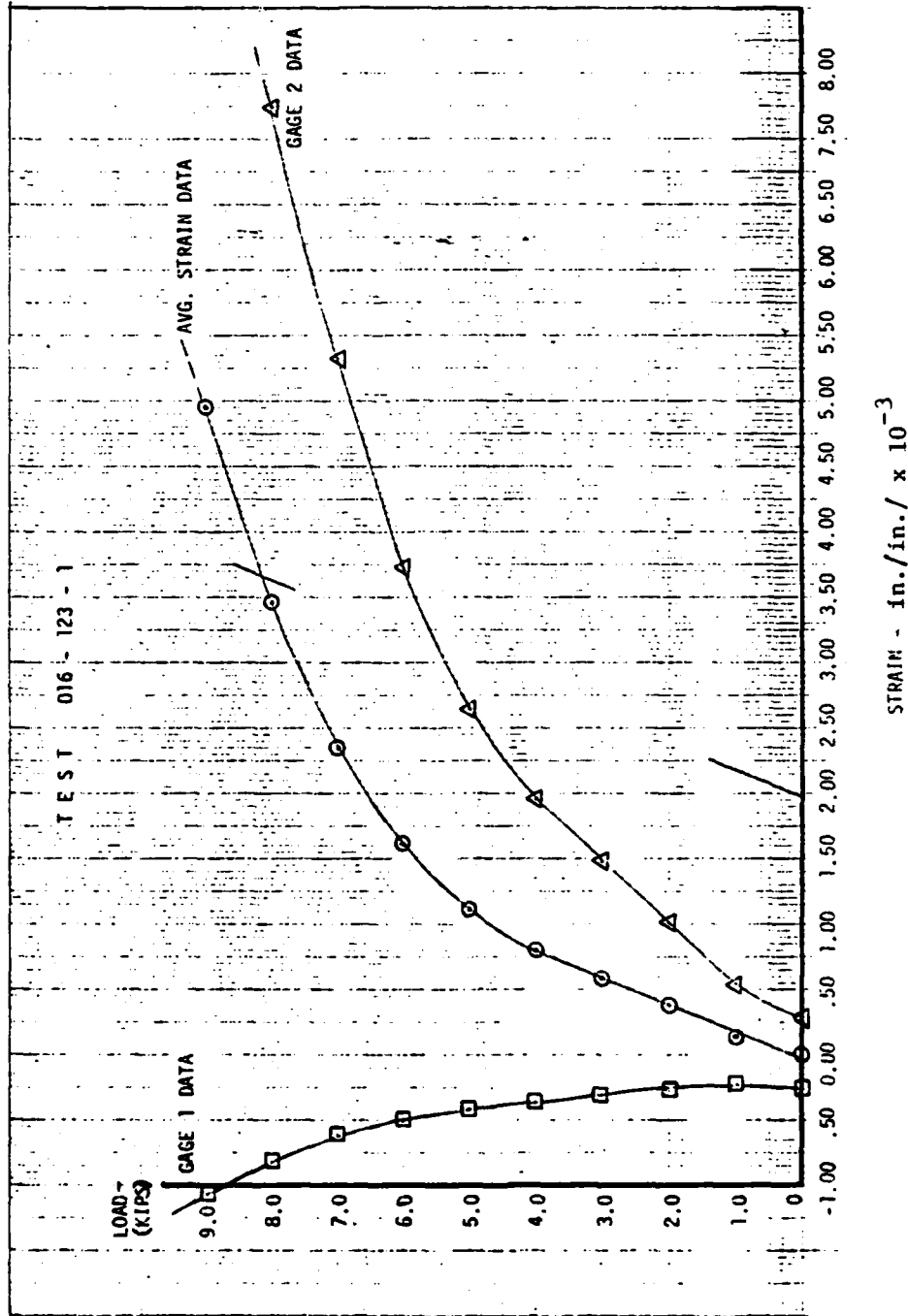
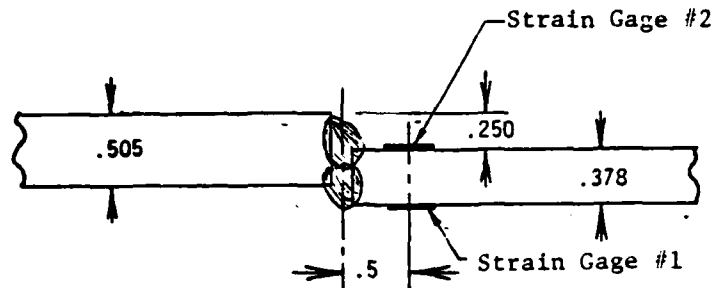


Figure C-5. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-123-1

TER073

Table C-6. Static Tensile Test Strain Data - Specimen No. TT802016-127-1



LOAD (lbs)	STRAIN DATA - $\mu\text{in./in.}$			NOTES
	GAGE #1	GAGE #2	AVERAGE	
0	0	0	0	
100	-528	595	34	
500	-528	756	114	
1000	-542	940	199	
1500	-550	1140	295	
2000	-558	1344	393	
2500	-568	1540	486	
3000	-576	1720	572	
3500	-582	1892	655	
4000	-572	2054	741	
4500	-562	2192	815	
5000	-552	2362	905	
5500	-544	2522	989	
6000	-542	2712	1085	
6500	-541	2912	1186	
7000	-546	3144	1299	
7500	-552	3418	1433	
8000	-564	3700	1568	
9000	-602	4540	1969	
9500	-640	5080	2220	
10K	-662	5614	2476	
10.5K	-704	6282	2789	
11K	-742	7000	3129	
11.5K	-780	7790	3505	
12K	-836	8820	3992	
12.5K	-855	9844	4495	
13.K	-900	10994	5047	
13.5K	-934	12290	5678	
14K	-924	13152	6114	
14.5K	-964	14870	6953	
15K	-938	16210	7636	
15.5K	-910	18414	8752	
16.0K	-868	-	-	Failure: 22.7 kips

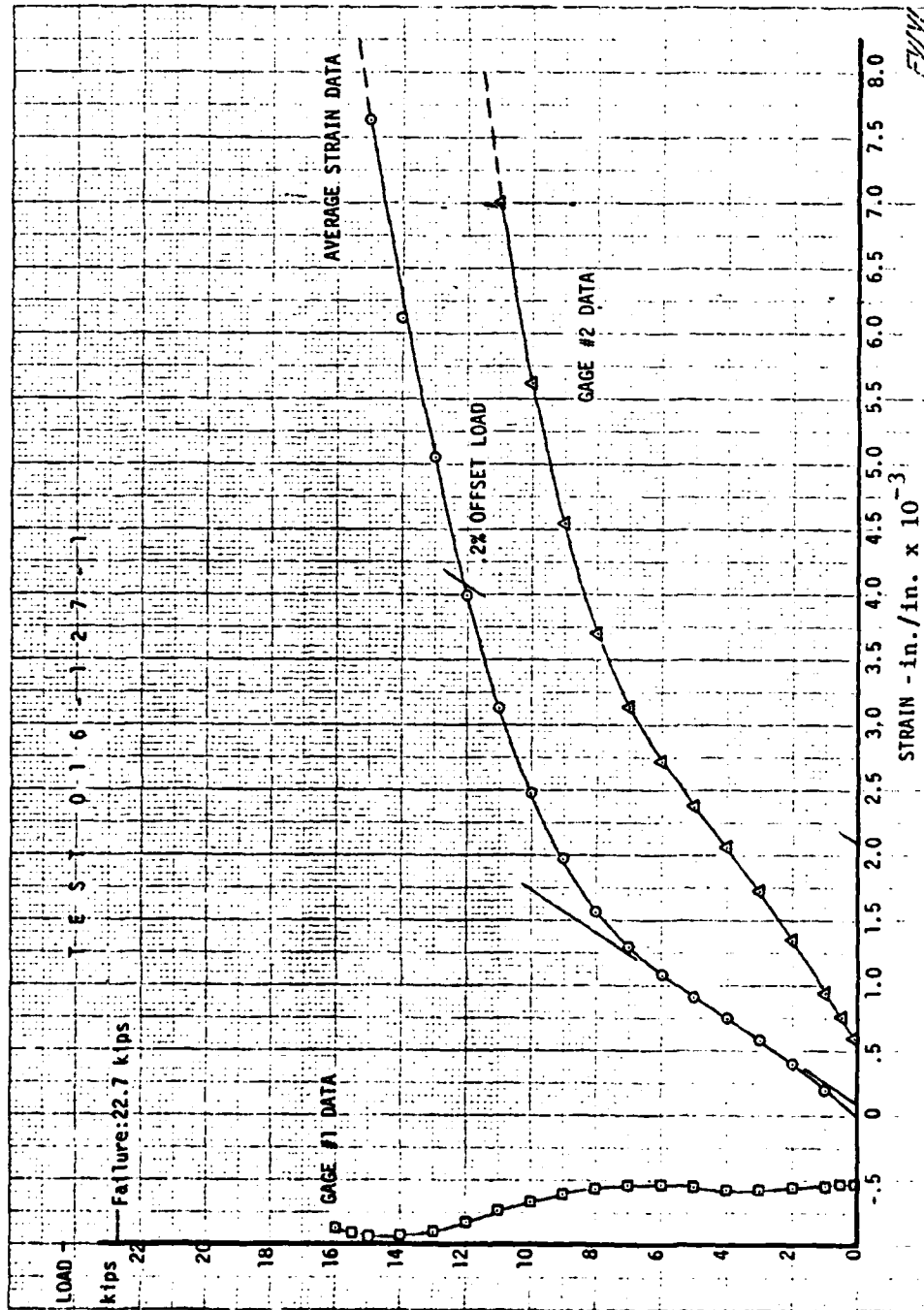


Figure C-6. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-127-1

TER073

Table C-7. Average Strain Comparisons for Mismatched and Misaligned Welded Plate Specimens.

LOAD (kip)	SPECIMEN NUMBER - STRAIN - in./in. / $\times 10^{-3}$			
	016-25-1	016-27-2	016-33-2	016-123-1
0	.005	.0155	.022	.01
.1		.016		
.2			.056	
.5		.13		.0765
1	.1495	.239	.1775	.1555
1.5		.374		
2	.353	.585	.383	.37
2.5		.7755		
3	.56	.996	.7335	.58
3.5		1.278		
4	.7545	1.638	1.1515	.8005
4.5		2.1455		
5	.978	2.817	1.6	1.116
5.5		2.825		
6	1.276	2.672	2.16	1.616
6.5		2.752		
7	1.78	2.522	2.7845	2.3595
7.5		2.593		
8	2.6225	3.047	3.522	3.466
8.5		3.8425		
9	3.866	5.012	4.2795	4.959
9.5		7.09		
10	5.554	9.7175	5.101	6.923

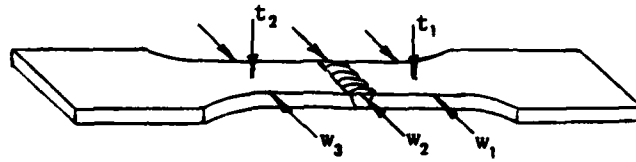
TER073

2 / FATIGUE TEST DATA

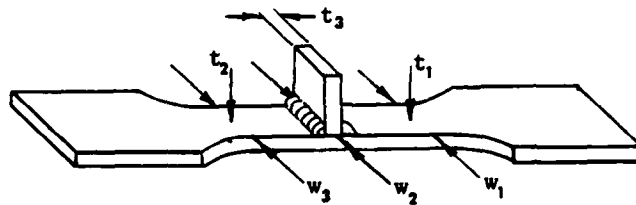
This section contains various detailed data pertinent to the welded plate coupon tensile fatigue and bending fatigue tests.

2.1 SPECIMEN DIMENSIONS

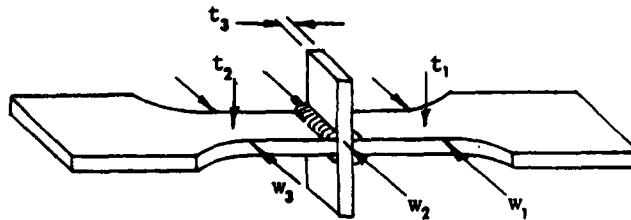
Specimen pretest measurement locations and the actual test section dimensions are presented in Figure C-7 and Table C-8, respectively.



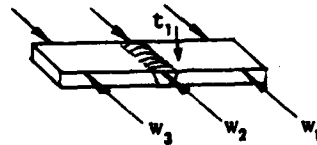
a) Transverse Butt Joint Tensile Fatigue Specimen



b) Transverse Tee Joint Tensile Fatigue Specimen



c) Transverse Cruciform Joint Tensile Fatigue Specimen



d) Transverse Butt Joint Bending Fatigue Specimen

Figure C-7. Welded Plate Fatigue Test Specimen Pretest Measurement Locations.

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 1 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	 OFFSET
Butt Jt. Tens. Fat.	019 -1 -1	.160	.161		1.503	1.502	1.502	
	-1 -2	.158	.160		1.504	1.505	1.503	
	-1 -3	.160	.161		1.503	1.505	1.502	
	-3 -1	.317	.313		1.500	1.500	1.499	
	-3 -2	.312	.313		1.496	1.498	1.498	
	-3 -3	.317	.314		1.500	1.499	1.498	
	-5 -1	.197	.312		1.497	1.501	1.502	
	-5 -2	.187	.305		1.497	1.501	1.503	
	-5 -3	.188	.308		1.512	1.508	1.506	
	-7 -1	.159	.159		1.503	1.504	1.503	.080
	-7 -2	.159	.158		1.502	1.504	1.502	"
	-7 -3	.159	.159		1.501	1.503	1.501	"
	-9 -1	.313	.314		1.497	1.496	1.496	.069
	-9 -2	.313	.314		1.499	1.499	1.499	"
	-9 -3	.313	.314		1.501	1.495	1.496	"
	-11 -1	.312	.312		1.502	1.500	1.500	
	-11 -2	.312	.312		1.490	1.479	1.479	
	-11 -3	.312	.312		1.508	1.508	1.508	
	-13 -1	.186	.312		1.503	1.504	1.508	
	-13 -2	.187	.312		1.501	1.509	1.509	
	-13 -3	.187	.313		1.500	1.500	1.498	
	-15 -1	.187	.315		1.500	1.502	1.503	.080
	-15 -2	.187	.315		1.501	1.502	1.502	"
	-15 -3	.187	.315		1.505	1.505	1.506	"
	-17 -1	.315	.315		1.505	1.505	1.504	
Butt Jt. Tens. Fat.	019 -17-2	.314	.314		1.501	1.501	1.503	

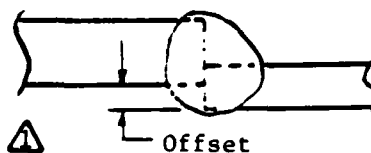


Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 2 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	OFFSET
Butt Jt. Tens. Fat.	019-17-3	.315	.314		1.507	1.508	1.506	
	-19-1	.185	.312		1.492	1.495	1.499	
	-19-2	.185	.311		1.497	1.498	1.501	
	-19-3	.185	.310		1.494	1.494	1.497	
	-21-1	.186	.312		1.495	1.496	1.494	
	-21-2	.186	.313		1.499	1.499	1.499	
	-21-3	.186	.313		1.505	1.502	1.505	
	-23-1	.160	.160		1.496	1.497	1.496	
	-23-2	.161	.160		1.494	1.492	1.493	
	-23-3	.160	.160		1.500	1.498	1.499	
	-25-1	.187	.313		1.497	1.500	1.500	
	-25-2	.187	.313		1.493	1.497	1.499	
	-25-3	.186	.312		1.500	1.498	1.500	
	-27-1	.164	.163		1.497	1.495	1.499	
	-27-2	.165	.165		1.499	1.499	1.496	
	-27-3	.164	.164		1.500	1.497	1.500	
	-29-1	.313	.313		1.503	1.501	1.503	
	-29-2	.312	.314		1.497	1.495	1.497	
	-29-3	.312	.313		1.500	1.501	1.501	
	-31-1	.185	.321		1.502	1.500	1.503	
	-31-2	.185	.320		1.500	1.500	1.500	
	-31-3	.185	.319		1.499	1.497	1.498	
	-33-1	.163	.163		1.506	1.505	1.505	
	-33-2	.163	.163		1.501	1.504	1.502	
	-33-3	.163	.163		1.505	1.506	1.505	
Butt Jt. Tens. Fat.	019-35-1	.315	.311		1.501	1.501	1.500	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 3 of 10).

All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	 OFFSET
Butt Jt. Tens. Fat.	019-35-2							
	-35-3	.313	.315		1.502	1.503	1.503	
	-37-1	.313	.316		1.503	1.504	1.504	
	-37-2	.316	.313		1.497	1.494	1.498	
	-37-3	.315	.312		1.499	1.499	1.500	
	-39-1	.314	.318		1.505	1.506	1.503	.050
	-39-2	.309	.314		1.500	1.500	1.500	.050
	-39-3	.315	.319		1.503	1.505	1.506	.050
	-41-1	.313	.184		1.502	1.500	1.502	
	-41-2	.313	.184		1.502	1.502	1.502	
	-41-3	.313	.184		1.503	1.502	1.501	
	-43-1	.301	.3185		1.500	1.500	1.499	
	-43-2	.301	.313		1.495	1.492	1.494	
	-43-3	.302	.313		1.500	1.500	1.501	
	-45-1	.185	.313		1.490	1.497	1.497	
	-45-2	.185	.313		1.500	1.501	1.503	
	-45-3	.185	.313		1.499	1.499	1.499	
	-47-1	.157	.158		1.499	1.501	1.499	
	-47-2	.158	.159		1.498	1.498	1.497	
	-47-3	.158	.159		1.500	1.501	1.501	
	-49-1	.311	.311		1.505	1.505	1.505	
	-49-2	.310	.311		1.504	1.504	1.504	
	-49-3	.311	.311		1.503	1.500	1.501	
	-51-1	.306	.306		1.503	1.502	1.503	
	-51-2	.306	.307		1.500	1.500	1.500	
Butt Jt. Tens. Fat.	019-51-3	.307	.307		1.502	1.500	1.500	

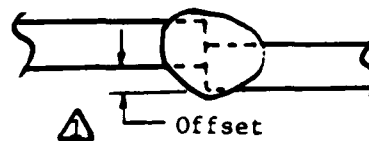


Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 4 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	OFFSET
Butt Jt. Tens. Fat.	019-65-1	.161	.161		1.499	1.498	1.497	
	-65-2	.161	.160		1.500	1.501	1.499	
	-65-3	.161	.161		1.500	1.499	1.500	
	-67-1	.314	.314		1.498	1.499	1.499	
	-67-2	.314	.314		1.502	1.502	1.501	
	-67-3	.314	.314		1.502	1.502	1.501	
	-75-1	.314	.314		1.503	1.502	1.501	
	-75-2	.314	.314		1.505	1.504	1.505	
	-75-3	.314	.313		1.507	1.506	1.506	
	-83-1	.314	.314		1.506	1.506	1.506	
	-83-2	.314	.315		1.503	1.502	1.501	
	-83-3	.314	.315		1.501	1.501	1.500	
	-85-1	.313	.313		1.504	1.503	1.502	
	-85-2	.313	.312		1.495	1.495	1.493	
	-85-3	.313	.313		1.498	1.499	1.499	
	-101-1	.313	.313		1.506	1.506	1.506	
	-101-2	.312	.314		1.500	1.500	1.502	
	-101-3	.314	.314		1.502	1.497	1.502	
	-103-1	.768	.769		1.505	1.505	1.502	
	-103-2	.768	.769		1.495	1.495	1.495	
	-103-3	.767	.766		1.508	1.509	1.509	
	-105-1	.377	.513		1.498	1.495	1.496	
	-105-2	.377	.508		1.499	1.501	1.501	
	-105-3	.378	.509		1.497	1.501	1.500	
	-109-1	.314	.315		1.502	1.504	1.502	
Butt Jt. Tens. Fat.	019-109-2	.314	.313		1.509	1.506	1.506	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 5 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	OFFSET
Butt Jt. Tens. Fat.	019-109-3	.314	.315		1.505	1.505	1.502	
	-111-1	.765	.765		1.504	1.503	1.503	
	-111-2	.765	.765		1.504	1.504	1.503	
	-111-3	.765	.765		1.504	1.502	1.505	
	-113-1	.376	.505		1.502	1.502	1.502	
	-113-2	.376	.505		1.502	1.502	1.502	
	-113-3	.377	.504		1.502	1.502	1.501	
	-115-1	.307	.312		1.508	1.508	1.508	
	-115-2	.312	.313		1.502	1.503	1.499	
	-115-3	.312	.313		1.505	1.505	1.504	
	-121-1	.310	.313		1.503	1.503	1.503	
	-121-2	.310	.313		1.501	1.501	1.502	
Butt Jt. Tens. Fat.	-121-3	.311	.312		1.501	1.500	1.500	
Tee Jt. Tens. Fat.	-201-1	.160	.160	.163	1.501	1.501	1.501	
	-201-2	.160	.160	.162	1.497	1.501	1.501	
	-201-3	.160	.160	.163	1.504	1.502	1.503	
	-203-1	.313	.319	.319	1.509	1.502	1.504	
	-203-2	.313	.314	.315	1.506	1.506	1.504	
	-203-3	.313	.314	.315	1.503	1.501	1.503	
	-205-1	.315	.319	.317	1.503	1.503	1.503	
	-205-2	.313	.319	.317	1.502	1.502	1.502	
	-205-3	.314	.319	.317	1.502	1.500	1.499	
	-209-1	.204	.203	.379	1.497	1.502	1.502	
	-209-2	.203	.204	.377	1.505	1.503	1.504	
	-209-3	.203	.202	.376	1.498	1.499	1.496	
Tee Jt. Tens. Fat.	019-211-1	.319	.320	.312	1.507	1.507	1.508	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 6 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	 OFFSET
Tee Jt. Tens. Fat.	019-211-2	.319	.320	.312	1.503	1.501	1.502	
	-211-3	.319	.324	.312	1.500	1.498	1.497	
	-213-1	.318	.315	.308	1.505	1.505	1.505	
	-213-2	.313	.315	.31	1.499	1.499	1.499	
	-213-3	.317	.314	.305	1.507	1.506	1.507	
	-221-1	.313	.315	.309	1.497	1.497	1.499	
	-221-2	.313	.315	.310	1.502	1.501	1.502	
	-223-1	.310	.311	.313	1.503	1.503	1.502	
Tee Jt. Tens. Fat.	-223-2	.310	.311	.314	1.502	1.503	1.501	
Cruc. Jt. Tens. Fat.	-301-1	.160	.160	.161	1.506	1.505	1.506	
	-301-2	.161	.161	.160	1.506	1.506	1.505	
	-301-3	.161	.161	.160	1.505	1.506	1.509	
	-303-1	.164	.162	.164	1.501	1.500	1.501	.040
	-303-2	.163	.163	.164	1.500	1.499	1.499	.040
	-303-3	.163	.163	.164	1.501	1.499	1.501	.040
	-305-1	.277	.277	.280	1.506	1.505	1.504	.050
	-305-2	.276	.276	.280	1.502	1.502	1.502	"
	-305-3	.277	.277	.279	1.501	1.502	1.502	"
	-307-1	.276	.277	.280	1.500	1.500	1.500	.025
	-307-2	.277	.275	.280	1.499	1.499	1.498	"
	-307-3	.275	.276	.279	1.499	1.499	1.499	"
	-309-1	.278	.276	.281	1.505	1.505	1.507	
	-309-2	.276	.279	.282	1.504	1.505	1.504	
	-309-3	.276	.279	.282	1.503	1.500	1.503	
	-311-1	.280	.280	.282	1.505	1.507	1.505	
Cruc. Jt. Tens. Fat.	019-311-2	.280	.280	.280	1.510	1.500	1.509	

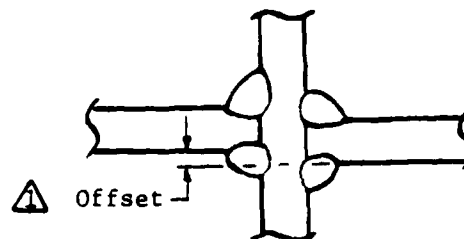


Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 7 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	OFFSET
Cruc. Jt. Tens. Fat.	019-311-3	.220	.220	.281	1.503	1.502	1.504	
	-313-1	.161	.161	.163	1.505	1.505	1.509	
	-313-2	.161	.161	.162	1.505	1.504	1.505	
	-313-3	.161	.161	.162	1.502	1.502	1.503	
	-315-1	.275	.279	.285	1.504	1.509	1.502	
	-315-2	.274	.278	.285	1.502	1.500	1.502	
Cruc. Jt. Tens. Fat.	-315-3	.273	.273	.265	1.502	1.501	1.502	
Butt Jt. Tens. Fat. (with imperf.)	-401-1	.194	.194		1.510	1.507	1.510	
	-401-2	.194	.194		1.505	1.505	1.505	
	-401-3	.187	.191		1.504	1.506	1.501	
	-401-4	.192	.193		1.501	1.504	1.501	
	-401-5	.192	.193		1.503	1.506	1.508	
	-401-6	.191	.192		1.506	1.505	1.506	
	019-401-7	.189	.192		1.509	1.512	1.509	
	019-401-8X	.191	.190		1.509	1.510	1.510	
	-403-1	.194	.194		1.510	1.509	1.510	
	-403-2	.194	.194		1.508	1.512	1.511	
	-403-3	.195	.195		1.509	1.512	1.510	
	-403-4	.195	.195		1.494	1.494	1.494	
	-403-5	.193	.193		1.509	1.512	1.510	
	-403-6	.193	.193		1.509	1.511	1.509	
	-405-1	.194	.194		1.505	1.505	1.505	
	-405-2	.194	.194		1.505	1.504	1.505	
	-405-3	.194	.194		1.505	1.503	1.505	
	-405-4	.194	.193		1.504	1.504	1.504	
	-405-5	.194	.195		1.504	1.504	1.503	
	-405-6	.194	.195		1.504	1.504	1.511	
Butt Jt. Tens. Fat. (with imperf.)	019-407-1	.193	.194		1.508	1.505	1.507	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 8 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t_1	t_2	t_3	w_1	w_2	w_3	OFFSET
Butt Jt. Tens. Fat. (with imperf.)	019-407-2	.193	.194		1.503	1.502	1.502	
	-407-3	.193	.194		1.503	1.503	1.502	
	-407-4	.195	.195		1.504	1.504	1.504	
	-407-5	.195	.195		1.502	1.502	1.502	
	-407-6	.195	.195		1.501	1.501	1.501	
	-413-1	.195	.194		1.503	1.502	1.502	
	-413-2	.193	.193		1.508	1.508	1.508	
	-413-3	.191	.195		1.504	1.502	1.502	
	-413-4	.195	.195		1.503	1.503	1.503	
	-415-1	.193	.194		1.505	1.505	1.505	
	-415-2	.194	.194		1.496	1.497	1.497	
	-415-3	.194	.193		1.495	1.495	1.494	
	-415-4	.194	.192		1.501	1.500	1.501	
	-417-R1	.192	.192		1.497	1.496	1.497	
	-417-R2	.193	.194		1.496	1.497	1.496	
	-417-R3	.193	.193		1.496	1.495	1.495	
	-417-R4	.192	.193		1.500	1.500	1.500	
	-419-1	.370	.370		1.506	1.506	1.506	
	-419-2	.363	.370		1.506	1.506	1.506	
	-419-3	.370	.370		1.504	1.504	1.504	
	-419-4	.366	.370		1.507	1.507	1.507	
	-419-5	.370	.372		1.503	1.502	1.502	
	-419-6X	.369	.371		1.502	1.503	1.502	
	-419-7X	.369	.371		1.502	1.501	1.502	
	-421-1	.358	.358		1.500	1.500	1.500	
	-421-2	.357	.356		1.502	1.503	1.503	
Butt Jt. Tens. Fat. (with imperf.)	019-421-3	.357	.358		1.506	1.504	1.504	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 9 of 10).
(All dimensions in inches)

[illegible]

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements
(Sheet 10 of 10).
(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t ₁	t ₂	t ₃	w ₁	w ₂	w ₃	OFFSET
					BENDING SPECIMENS			
Butt Jt. Bend. Fat.	020-1-1	.314			2.000	2.000	2.000	
	-1-2	.314			2.000	2.000	2.000	
	-1-3	.313			2.004	2.004	2.004	
	-1-4	.312			1.999	1.999	1.999	
	-1-5	.313			2.000	2.000	2.000	
	-1-6	.312			1.999	1.999	1.999	
	-3-1	.314			2.003	2.003	2.003	
	-3-2	.316			2.005	2.005	2.005	
	-3-3	.313			2.004	2.004	2.004	
	-3-4	.310			2.002	2.002	2.002	
	-3-5	.310			2.005	2.005	2.005	
	-3-6	.311			2.001	2.001	2.001	
	-5-1	.313			2.003	2.003	2.003	
	-5-2	.311			2.005	2.005	2.005	
	-5-3	.310			2.002	2.002	2.002	
	-9-1	.314			2.000	2.000	2.000	
	-9-2	.314			2.000	2.000	2.000	
	-9-3	.314			2.000	2.000	2.000	
	-11-1	.313			2.002	2.002	2.002	
	-11-2	.312			2.003	2.003	2.003	
	-11-3	.312			2.002	2.002	2.002	
	-13-1	.314			2.001	2.001	2.001	
	020-13-2	.313			2.001	2.001	2.001	
	020-13-3	.313			2.000	2.000	2.000	
	-15-1	.192			2.000	2.000	2.000	
	-15-2	.193			2.000	2.000	2.000	
	-15-3	.193			2.001	2.001	2.001	
	-101-1	.313			2.001	2.001	2.001	
	-101-2	.312			1.996	1.996	1.996	
Butt Jt. Bend. Fat.	020-101-3	.312			1.995	1.005	1.005	

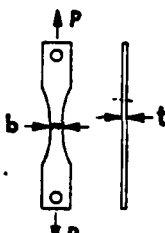
2.2 TEST DATA SHEETS

This section contains copies of the test laboratory data sheets summarizing the recorded data for all welded plate specimen fatigue tests. Minor additions and deletions have been made on these sheets to enhance clarification.

Data sheets for the butt weld specimen tensile fatigue tests are presented on pages B-504 through B-508. The tensile fatigue data sheets for transverse tee specimens are provided on pages B-508 and B-509 for transverse cruciform specimens, on pages B-509 and B-510. Data sheets for the tensile fatigue tests on butt welded specimens containing weld imperfections are presented on pages B-510 through B-513. Tensile fatigue retest data for all original run-out specimens is tabulated on page B-514. Pages B-515 through B-517 present the butt welded plate bending fatigue test data sheets.

TER073

TIR TG. NO.		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER 2991		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER 444-11-0-40 F. WEBER					



TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F FREQUENCY (cpm) 1000

BASE MAT'L. 5456 AL

GRAIN DIRECTION N/A

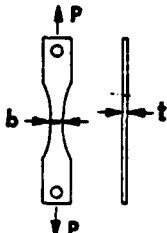
SPECIMEN NO.	b (in)	t (in)	A = b x t (in) ²	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				STRESS P (KSI)	STRESS P (KSI)	STRESS P (KSI)		
019-1-1	1.502	.160	.2403	9/15	3605	15	108.7	FAILED
-1-2	1.505	.158	.2378	9/18	3091	13	200.4	FAILED
-1-3	1.505	.160	.2408	9/19	3130	13	383.5	FAILED
019-3-1	1.500	.313	.4695	9/19	7043	15	360.3	FAILED
-3-2	1.498	.313	.4689	9/25	6095	13	1623.1	FAILED
-3-3	1.499	.314	.4707	9/25	6119	13	423.5	FAILED
019-5-1	1.507	.187	.2807	10/20	4210	15	137.7	FAILED
-5-2	1.501	.187	.2807	10/24	3640	13	697.7	FAILED
-5-3	1.508	.188	.2825	10/25	3686	13	75.0	FAILED
019-7-1	1.504	.158	.2376	9/20	3564	13	59.3	FAILED
-7-2	1.504	.158	.2376	9/21	2614	11	81.7	FAILED
-7-3	1.503	.159	.2390	9/25	1673	7	2501.8	FAILED
019-9-1	1.496	.313	.4682	9/20	7024	15	52.1	FAILED
-9-2	1.499	.313	.4692	9/21	5161	11	1752.8	FAILED
-9-3	1.495	.313	.4679	9/26	3155	13	112.7	FAILED
019-11-1	1.500	.312	.4680	10/5	3424	12	495.0	FAILED
-11-2	1.474	.312	.4597	10/9	9193	20	258.9	FAILED
-11-3	1.508	.312	.4705	10/10 1/2	8469	18	1597.7	FAILED
019-13-1	1.504	.186	.2797	10/17 1/5	4196	15	3950.0	NO FAILURE
-13-2	1.504	.187	.2812	10/20	5625	20	73.2	FAILED
-13-3	1.500	.187	.2805	10/23	4769	17	126.9	FAILED
019-15-1	1.502	.187	.2809	10/23	4213	15	104.5	FAILED
-15-2	1.502	.187	.2809	10/27	3651	13	17.1	FAILED
-15-3	1.505	.187	.2814	10/30	3659	13	19.2	FAILED

TESTED BY: <u>WOODS / WIDMER</u>	DATE: <u>8-17-79</u>

Transverse Butt Joint

TER073

TIA TG. NO.	2991	ENGINEERING LABORATORY	TEST SPECIFICATION
WORK ORDER	444-11-0-40	TEST REPORT	SPECIMEN DWG. NO.
REQUESTER	F. WEBER		



TENSION FATIGUE PLATE/SHEET

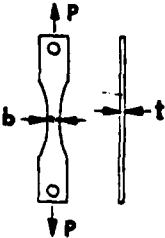
TEST TEMP _____ °F
 BASE MAT'L. 5456 AL
 FREQUENCY (cpm) 1000
 GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = b x t (in) ²	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				STRESS (ksi)	P (lbs.)	KSI		
019-17-1	1.505	.315	.4741	10/4	3533	18	11.8	FAILED
-17-2	1.501	.314	.4713	10/9	7070	15	1037.9	NO FAILURE *
-17-3	1.508	.314	.4735	10/11	8523	18	342.6	FAILED
019-19-1	1.495	.185	.2766	10/23	4149	15	142.3	FAILED
-19-2	1.498	.185	.2771	11/25	3603	13	495.1	FAILED
-19-3	1.494	.185	.2771	10/27	3603	13	531.3	FAILED
019-21-1	1.496	.186	.2783	10/24	4175	15	7.9	FAILED
-21-2	1.498	.186	.2786	10/25	2507	9	15.7	FAILED
-21-3	1.502	.186	.2794	10/27	1397	5	48.3	FAILED
019-23-1	1.497	.160	.2395	2/6	4311	18	35.8	FAILED
-23-2	1.492	.160	.2387	2/8	3581	15	101.6	FAILED
-23-3	1.498	.160	.2397	2/11	3116	13	151.7	FAILED
019-25-1	1.500	.187	.2805	10/23	4769	17	101.3	FAILED
-25-2	1.497	.187	.2799	10/24	4199	15	246.6	FAILED
-25-3	1.498	.186	.2786	10/27	3622	13	624.3	FAILED
019-27-1	1.495	.163	.2437	2/25	3168	13	48.4	FAILED
-27-2	1.499	.165	.2473	2/28	2720	11	1167.0	NO FAILURE *
-27-3	1.497	.164	.2455	10/3	3192	13	130.6	FAILED
019-29-1	1.501	.313	.4693	10/4	7047	15	357.3	FAILED
-29-2	1.495	.312	.4664	10/6	7929	17	99.1	FAILED
-29-3	1.501	.312	.4683	10/9	7025	15	256.1	FAILED
019-31-1	1.500	.185	.2775	4/10	3608	13	482.5	FAILED
-31-2	1.500	.185	.2775	4/11	3608	13	507.3	FAILED
-31-3	1.497	.185	.2769	4/9	4985	18	24.6	FAILED
* RERUN (DATA AT END OF SPECIMEN LIST)								
TESTED BY: WOODS/WIDMER				DATE: 8-17-79				

Transverse Butt Joint

TER073

TIT. NO. <u>2991</u> WORK ORDER <u>444-11-0-40</u> REQUESTER <u>F. W. RABER</u>	ENGINEERING LABORATORY TEST REPORT	TEST SPECIFICATION SPECIMEN DWG. NO.



TENSION FATIGUE PLATE/SHEET

TEST TEMP ROOM °F
 BASE MAT'L. 525621

FREQUENCY (cpm) 1000

GRAIN DIRECTION 1/1

SPECIMEN NO.	b (in)	t (in)	A ₀ D ₀ t (in) ²	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				P (lbs.)	KSI			
019-33-1	1.506	.163	.2455	9/28	4419	18	125.4	FAILED
-33-2	1.504	.163	.2452	10/2	3678	15	1017.3	NO FAILURE *
-33-3	1.506	.163	.2470	9/27	3211	13	1533.1	NO FAILURE *
019-35-1	1.501	.311	.4668	9/28	6069	13	629.4	FAILED
-35-2	1.506	.313	.4714	10/6	7071	15	1075	NO FAILURE *
-35-3	1.503	.312	.4659	11/6 12/19	7972	17	1320.0	FAILED
019-37-1	1.504	.312	.4708	9/29	8474	18	162.0	FAILED
-37-2	1.494	.313	.4676	10/3	7014	15	1757.1	NO FAILURE
-37-3	1.499	.312	.4677	10/9	8418	18	218.3	FAILED
019-39-1	1.505	.314	.4725	4/2	8536	18	70.2	FAILED
-39-2	1.500	.309	.4635	3/23	9270	20	176.5	FAILED
-39-3	1.503	.314	.4719	3/29	9495	18	241.2	FAILED
019-41-1	1.500	.184	.2760	4/5	4692	17	25.7	FAILED
-41-2	1.502	.184	.2764	4/6	3593	13	950.9	FAILED
-41-3	1.502	.184	.2764	4/6	4146	15	102.9	FAILED
019-43-1	1.500	.301	.4515	10/5	5870	13	1281.3	NO FAILURE *
-43-2	1.492	.301	.4491	10/6	7635	17	114.8	FAILED
-43-3	1.500	.302	.4530	10/6	6795	15	148.4	FAILED
019-45-1	1.497	.185	.2769	10/27	3600	13	81.8	FAILED
-45-2	1.501	.185	.2777	10/30	3055	11	420.6	FAILED
-45-3	1.499	.185	.2773	10/30	3050	11	191.7	FAILED
019-47-1	1.501	.157	.2357	9/12	4243	18	88.0	FAILED
-47-2	1.498	.158	.2367	9/14	3550	15	158.6	FAILED
-47-3	1.501	.158	.2372	9/18	3093	13	1683.6	FAILED
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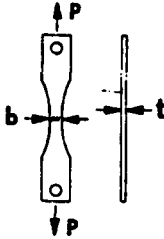
TESTED BY: WOODS/WIOMER

DATE: 8-17-79

Transverse Butt Joint

TER073

TIR TG. NO. 2991		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER 444-11-0-40		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER F. WEBER					



TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F FREQUENCY (cpm) 1000

BASE MAT'L. 5456 AL

GRAIN DIRECTION N/A

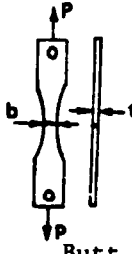
SPECIMEN NO.	b (in)	t (in)	A = b x t (in) ²	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				REV	P (lbs.)	KSI		
09-49-1	1.505	.311	.4681	11/21	9361	20	574.3	FAILED
-49-2	1.504	.310	.4662	11/22	10257	22	129.3	FAILED
-49-3	1.500	.311	.4665	11/27	9330	20	300.2	FAILED
09-51-1	1.502	.306	.4596	11/22	6894	15	540.2	FAILED
-51-2	1.500	.306	.4590	11/22	7803	17	31.7	FAILED
-51-3	1.500	.307	.4605	11/29	6908	15	2606.3	NO FAILURE *
09-65-1	1.498	.161	.2412	9/5	4341	18	108.5	FAILED
-65-2	1.501	.160	.2402	9/5	4323	18	71.8	FAILED
-65-3	1.499	.161	.2413	9/7 1/2	3620	15	823.3	FAILED
09-67-1	1.494	.314	.4691	9/28	7035	15	1069.4	NO FAILURE *
-67-2	1.502	.314	.4716	9/27	6131	13	1326.9	NO FAILURE *
-67-3	1.502	.314	.4716	10/2	8489	18	800.0	FAILED IN GRIP
09-75-1	1.502	.314	.4716	3/22	10375	22	167.7	FAILED
-75-2	1.504	.314	.4723	3/26	9445	20	883.6	FAILED
-75-3	1.506	.313	.4714	3/28	10371	22	444.3	FAILED
09-83-1	1.506	.314	.4729	3/27	10414	22	300.7	FAILED
-83-2	1.502	.314	.4716	3/30	10376	22	224.3	FAILED
-83-3	1.501	.314	.4713	11/22 9/3	9426	20	514.2	FAILED IN GRIP
09-85-1	1.503	.313	.4704	3/29	10350	22	250.6	FAILED
-85-2	1.495	.313	.4679	4/3	9359	20	2166.0	NO FAILURE
-85-3	1.499	.305	.4572	4/5	10058	22	68.2	FAILED
09-101-1	1.506	.313	.4714	10/10	8485	18	115.9	FAILED
-101-2	1.500	.314	.4710	10/13	7065	15	367.7	FAILED
-101-3	1.477	.314	.4701	10/16	7051	15	727.6	FAILED
* RETURN DATA AT END OF SPECIMEN LIST								

TESTED BY: WOODS / WIDMER DATE: 8-17-79

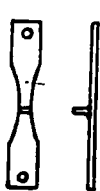
Transverse Butt Joint

TER073

TIA TG. NO. 2991		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER 444-11-0-40		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER F. W. E. B. E. R					



Butt



Tee

TENSION FATIGUE PLATE/SHEET

TEST TEMP ROOM °F FREQUENCY (cpm) 1000

BASE MAT'L. 5456 A1

GRAIN DIRECTION 1/1A ▲ TESTED @ G.D./CONVAIR DIV.

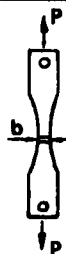
SPECIMEN NO.	b (in)	t (in)	A b d t (in) 2	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				MIN	P (lbs.)	KSI		
019-103-1	1.505	.768	1.156	5/14		18	77.0	FAILED ▲
-103-2	1.495	.768	1.148	5/14		15	178.0	FAILED ▲
-103-3	1.508	.766	1.155	5/14		12	1975.0	FAILED ▲
019-105-1	1.495	.377	5636	10/31	10145	18	15.4	FAILED
-105-2	1.501	.377	5659	10/31	7356	13	93.2	FAILED
-105-3	1.501	.379	5674	11/1	6241	11	354.6	FAILED
019-109-1	1.504	.314	4720	3/21: 4/3	9445	20	605.2	FAILED IN GRIP
-109-2	1.506	.313	4714	3/23	11313	24	39.8	FAILED
-109-3	1.505	.314	4725	4/5	9451	20	2692.1	NO FAILURE
019-111-1	1.503	.765	1.150	5/14		20	61.0	FAILED ▲
-111-2	1.503	.765	1.150	5/14		17	179.0	FAILED ▲
-111-3	1.502	.765	1.149	5/14		14	593.0	FAILED! ▲
019-113-1	1.502	.376	5647	4/11	12425	22	37.1	FAILED
-113-2	1.506	.376	5663	4/13	8394	15	2097.3	NO FAILURE
-113-3	1.502	.377	5663	4/15	10193	18	444.3	FAILED
019-115-1	1.508	.307	49630	3/23	11112	24	163.8	FAILED
-115-2	1.503	.312	4690	3/22	9379	20	1411.8	NO FAILURE
-115-3	1.505	.311	4681	3/22	10297	22	489.6	FAILED
019-117-1	1.503	.310	4659	12/1	83816	18	534.7	FAILED
-117-2	1.501	.310	4653	10/12	9306	20	637.9	FAILED
-117-3	1.500	.311	4665	10/13	9330	20	158.7	FAILED
019-201-1	1.501	.160	2402	12/1	3603	15	1804.6	NO FAILURE *
-201-2	1.501	.160	2402	12/4	4323	18	445.8	NO FAILURE *
-201-3	1.502	.160	2403	12/5	5287	22	326.7	FAILED
* RETURN (DATA AT END OF SPECIMEN LIST)								
TESTED BY: WOODS / WIDMER				DATE: 8-17-79				

Transverse Butt Joint

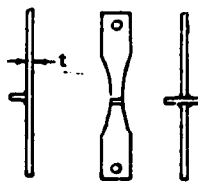
Transverse Tee Joint

TER073

TIR TC. NO. <u>2991</u>		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER <u>444-11-0-40</u>		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER <u>F. WEBER</u>					



Tee



Cruciform

TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F FREQUENCY (cpm) 1000
 BASE MAT'L. 5456 AL

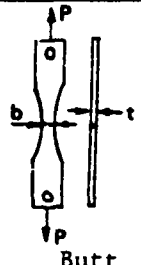
GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = b x t (in)²	CYCLING DATA			CYCLES TO FAILURE	REMARKS
				Waveform	P (lbs.)	KSI		
019-203-1	1.502	.313	.4701	1/16	8462	18	501.1	FAILED
-203-2	1.506	.313	.4798	1/16	9428	20	132.7	FAILED
-203-3	1.501	.313	.4698	1/16	8457	18	360.5	FAILED
019-205-1	1.503	.315	.4734	1/16	8521	18	510.2	FAILED
-205-2	1.502	.313	.4701	1/20	9403	20	182.6	FAILED
-205-3	1.502	.314	.4710	1/22	8478	18	181.1	FAILED
019-207-1	1.502	.203	.3049	1/10	5488	18	1858.2	FAILED
-207-2	1.503	.203	.3051	1/30	6002	20	299.5	FAILED
-207-3	1.499	.202	.3028	1/30	6056	20	211.6	FAILED
019-211-1	1.507	.319	.4807	1/16	8653	18	175.0	FAILED
-211-2	1.501	.319	.4788	1/20	8619	18	328.1	FAILED
-211-3	1.498	.319	.4779	1/22	7168	15	565.5	FAILED
019-213-1	1.505	.315	.4791	3/29	9482	20	71.8	FAILED
-213-2	1.499	.313	.4692	3/29	8446	18	101.1	FAILED
-213-3	1.506	.314	.4729	3/30	7093	15	261.7	FAILED
019-221-1	1.497	.313	.4686	1/12	8434	18	416.0	FAILED
-221-2	1.501	.313	.4698	1/13	9396	20	285.2	FAILED IN SRIP
019-223-1	1.503	.310	.4659	1/29	9318	20	163.4	FAILED
-223-2	1.503	.304	.4569	1/2	8224	18	41.7	FAILED
019-301-1	1.505	.160	.2403	1/8	2649	11	831.8	FAILED
-301-2	1.506	.161	.2425	1/8	3153	13	232.5	FAILED
-301-3	1.506	.161	.2425	1/9	3153	13	241.7	FAILED
019-303-1	1.501	.162	.2432	12/1	2675	11	515.1	FAILED
-303-2	1.499	.163	.2443	12/6	3176	13	274.0	FAILED
-303-3	1.499	.163	.2443	12/6	2688	11	1255.1	FAILED

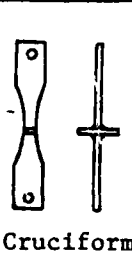
TESTED BY: WOODS / WIDMER DATE: 8-17-79

TER073

VIR TG. NO.	2991	ENGINEERING LABORATORY	TEST SPECIFICATION
WORK ORDER	444-11-D-40	TEST REPORT	SPECIMEN DWG. NO.
REQUESTER	F. WEBER		



Butt



Cruciform

TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F
 BASE MAT'L. 5456 AL

FREQUENCY (cpm) 1000

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = b x t (in) ²	CYCLING DATA			CYCLES TO FAILURE	REMARKS
					P (lbs.)	KSI		
019-305-1	1.505	.277	.4169	1/6	4586	11	470.5	FAILED
-305-2	1.502	.276	.4146	1/6	5232	12	147.9	FAILED
-305-3	1.502	.277	.4161	1/12	4577	11	398.3	FAILED
019-307-1	1.500	.276	.4140	1/7	4554	11	215.3	FAILED
-307-2	1.499	.275	.4122	1/3	4534	11	115.1	FAILED
-307-3	1.499	.275	.4122	1/3	3710	9	467.8	FAILED
019-309-1	1.503	.276	.4162	1/3	4578	11	2446.3	NO FAILURE *
-309-2	1.505	.276	.4154	1/10	5400	13	75.7	FAILED
-309-3	1.500	.276	.4140	1/14	4554	11	258.4	FAILED
019-311-1	1.507	.280	.4220	1/21	5435	13	67.6	FAILED
-311-2	1.510	.280	.4228	1/21	4651	11	155.8	FAILED
-311-3	1.502	.280	.4206	1/25	3785	9	759.6	FAILED
019-313-1	1.505	.161	.2423	1/10	4361	13	115.2	FAILED
-313-2	1.504	.161	.2421	1/13	3632	15	335.8	FAILED
-313-3	1.502	.161	.2418	1/13	3627	15	253.5	FAILED
019-315-1	1.499	.275	.4122	1/14	7420	18	147.5	FAILED
-315-2	1.500	.274	.4110	1/15	6165	15	606.1	FAILED
-315-3	1.501	.273	.4098	1/17	6147	15	560.9	FAILED
019-401-1	1.507	.194	.2924	1/27	4395	15	561.6	FAILED
-401-2	1.505	.194	.2920	7/2	4380	15	414.5	FAILED
-401-3	1.506	.187	.2816	7/3	4224	15	284.3	FAILED
-401-4	1.504	.192	.2888	7/6	4332	15	261.2	FAILED
-401-5	1.506	.192	.2892	7/11	4337	15	334.5	FAILED
-401-6	1.505	.191	.2875	7/11	4313	15	197.8	FAILED
* RETURN (DATA AT END OF SPECIMEN LIST)								

TESTED BY: WOODS / WIDMER

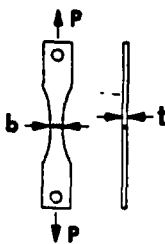
DATE: 8-17-79

Transverse Butt Joint with Imperfections

Transverse Cruciform Joint

TER073

TIA TG. NO. <u>2991</u>		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER <u>444-11-0-40</u>		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER <u>F. W. E. B. R.</u>					



TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F FREQUENCY (cpm) 1000

BASE MAT'L. 5456 AL

GRAIN DIRECTION 1/4

SPECIMEN NO.	b (in)	t (in)	A = b x t (in ²)	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
					P (lbs.)	KSI		
019-4031	1.509	.194	.2927	6/29	4391	15	595.2	FAILED
-4032	1.512	.194	.2933	7/3	4400	15	534.0	FAILED
-4033	1.512	.195	.2918	7/5	4423	15	339.9	FAILED
-4034	1.494	.195	.2913	7/9	4370	15	256.3	FAILED
-4035	1.512	.193	.2918	7/11	4377	15	292.2	FAILED
-4036	1.511	.193	.2916	7/12	4374	15	1022.2	FAILED
019-4051	1.565	.194	.2920	6/6	4380	15	101.3	FAILED
-4052	1.504	.194	.2915	6/7	3793	13	155.9	FAILED
-4053	1.503	.194	.2916	6/11	3207	11	158.1	FAILED
-4054	1.504	.193	.2903	6/13	2903	10	821.8	FAILED
-4055	1.504	.194	.2918	6/18	3210	11	2483.9	FAILED
-4056	1.504	.194	.2918	6/21	3210	11	1694.9	NO FAILURE
019-4071	1.505	.193	.2905	6/5	4357	15	70.9	FAILED
-4072	1.502	.193	.2899	6/8	3189	11	154.6	FAILED
-4073	1.503	.192	.2901	6/12	2901	10	482.1	FAILED
-4074	1.504	.195	.2933	6/22	3226	11	265.7	FAILED
-4075	1.502	.195	.2929	6/13	2639	9	2711.7	NO FAILURE
-4076	1.501	.195	.2927	6/22	3220	11	713.5	FAILED
019-4131	1.502	.194	.2919	7/2	3788	12	774.0	FAILED
-4132	1.508	.193	.2910	7/5	3784	13	719.0	FAILED
-4133	1.502	.195	.2929	7/6	3505	13	1162.5	FAILED
-4134	1.503	.195	.2931	7/9	3810	13	522.1	FAILED

TESTED BY: <u>WOODS/WIDMER</u>	DATE: <u>8-17-79</u>

Transverse Butt Joint with Imperfections

TER073

Transverse Butt Joint with Imperfections

TER073

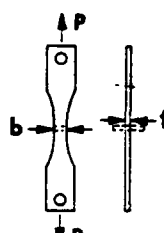
[illegible]

Transverse Butt Joint with Imperfections

TER073

VIN TO. NO. 2991 WORK ORDER 444-11-0-10 REQUESTER F. WEBER	ENGINEERING LABORATORY TEST REPORT	TEST SPECIFICATION RMI TTP00016A SPECIMEN DWG. NO.

TENSTION FATIGUE PLATE/SHEET



TEST TEMP Room °F
 BASE MAT'L. 5456 AL

FREQUENCY (cpm) 1000

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = D x t (in) ²	CYCLING DATA			CYCLES TO FAILURE	REMARKS
				P (lbs.)	KSI			
019-67-1	1.499	.314	.4691	11/15	9382	20	401.2	FAILED (REVN)
019-67-2	1.502	.314	.4716	11/17	8482	18	1636.2	FAILED (REVN)
019-19-1	1.502	.369	.5546	3/15	9983	18	946.7	FAILED
019-19-2	1.501	.369	.5539	3/16	9970	18	1080.2	FAILED
019-41-1	1.512	.189	.2858	7/13	4257	15	205.5	FAILED
019-41-2	1.510	.190	.2869	7/13	4304	15	33.7	FAILED
019-17-2	1.501	.314	.4713	12/20		20	35.2	FAILED R12
019-27-2	1.499	.165	.2473	1/12		15	6555.1	No FAILURE R12
019-33-2	1.504	.163	.2452	12/18		20	259.9	FAILED R12
019-33-3	1.506	.163	.2470	12/21		18	1685.0	FAILED R12
019-35-2	1.506	.313	.4714	12/19		20	306.6	FAILED R12
019-43-1	1.500	.301	.4515	12/20		17	329.3	FAILED R12
019-51-3	1.500	.307	.4605	1/3		20	827.1	FAILED R12
019-201-1	1.501	.160	.2402	1/5		18	4148.9	No FAILURE R12
019-201-2	1.501	.160	.2402	1/12		24	154.2	FAILED R12
019-303	1.508	.276	.4162	1/3		15	35.6	FAILED R12
019-201-1	1.501	.160	.2402	1/15		22	350.6	FAILED R12

SPECIMEN CONFIGURATION:

☐ Transverse Butt Joint

☐ Transverse Tee Joint

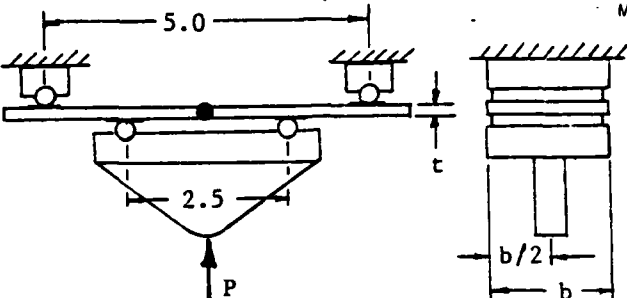
☐ Transverse Cruciform Joint

☐ Transverse Butt Joint with Imperfections

TESTED BY: NGOOS/WIDMER

DATE: 8-17-79

TER073

TEST NO. <u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION <u>RMITTP00016A</u>							
WORK ORDER <u>444-11-C-40</u>	TEST REPORT								
REQUESTER <u>E. WEBER</u>									
BENDING FATIGUE									
TEST TEMPERATURE <u>Room</u> °F									
									
SPEC. NO.	b (in)	h (in)	DATE	F - FACE R - BACK IN TENSILE	AREA (in ²)	CYCLING DATA P max (lb)	F _s (KSI)	KFCYCLES TO FAILURE	REMARKS
20-1-1	2.000	.314	9/1	F		947	18	2164	NO FAILURE
-1-2	2.000	.314	9/5	F		1052	20	1358	NO FAILURE
-1-3	2.004	.313	9/6	F		1204	23	1893	NO FAILURE
-1-4	1.999	.312	9/11	R		1193	23	189	FAILED
-1-5	2.020	.313	9/28	F		1045	20	2625	NO FAILURE
-1-6	1.999	.312	9/28	F		1193	23	630	FAILED
-3-1	2.003	.314	10/2	F		1211	23	62	NO FAILURE
-3-2	2.005	.316	10/3	F		1442	27	2242	NO FAILURE
-3-3	2.004	.313	10/3	F		1571	30	1000	NO FAILURE
-3-4	2.002	.310	10/2	R		1180	23	7014	NO FAILURE
-3-5	2.005	.310	10/4	R		1387	27	1058	FAILED
-3-6	2.001	.311	10/4	R		1548	30	369	FAILED
-5-1	2.003	.313	10/6	R		1570	30	120	FAILED
-5-2	2.005	.311	10/8	R		1396	27	467	FAILED
TESTED BY: <u>WOODS / WIDMER</u>						DATE: <u>8-17-79</u>			

TER073

TEST NO. <u>2901</u> WORK ORDER <u>444-11-0-40</u> REQUESTER <u>F. WEBER</u>	ENGINEERING LABORATORY TEST REPORT	TEST SPECIFICATION <u>RMI TTP00016A</u> SPECIMEN DWG. NO. _____

BENDING FATIGUE

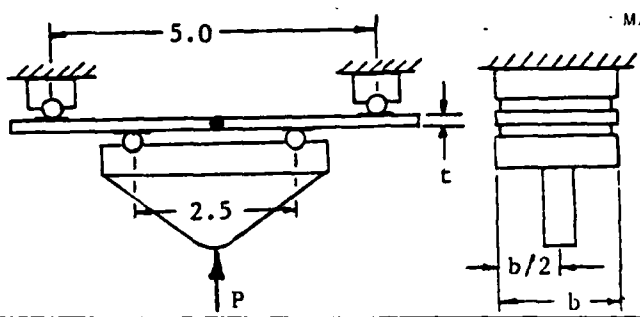
TEST TEMPERATURE ROOM °F

MAT'L. 5456 Al

$$F'_s = \frac{1.875 P}{t^2}$$

SPEC. NO.	b (in)	h (in)	DATE	F-R-ROOT IN TENSILE	AREA (in) ²	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
						P max (lbs.)	F' s (ksi)			
080-53	2.002	.310	10/23	R		1385	27	349	FAILED	
-9-1	2.000	.314	9/12	R		1209	23	393	FAILED STRAINED	
-9-2	2.000	.314	9/11	R		1209	23	1109	FAILED	
-9-3	2.000	.314	9/13	R		1209	23	1010	FAILED	
-11-1	2.004	.313	7/9/79	R		1308	25	2260	NO FAILURE	
-11-2	2.003	.312	7/9/79	R		1558	30	139	FAILED	
-11-3	2.002	.312	7/12/79	R		1403	27	5028	NO FAILURE	
-13-1	2.001	.314	8/7/79	R		1578	30	271	FAILED	
-13-2	2.001	.313	8/8/79	R		1464	28	1333	NO FAILURE	
-13-3	2.000	.313	8/9/79	R		1568	30	533	FAILED	
-15-1	2.000	.192	10/18	R		492	25	2432	FAILED	
-15-2	2.000	.193	10/12	R		596	30	235	FAILED	
-15-3	2.001	.193	10/11/79	R		538	27	11,263	NO FAILURE	
-101-1	2.001	.313	7/25	F		1255	24	1034	FAILED	
101-2	1.976	.272	9/21	F		1347	26	93	FAILED	
101-3	1.995	.312	10/5	F		1243	24	604	FAILED	

TER073

TEST NO. <u>2991</u> WORK ORDER <u>444-11-0-40</u> REQUESTER <u>F. WEBER</u>	ENGINEERING LABORATORY TEST REPORT	TEST SPECIFICATION <u>RMI TT2000164</u> SPECIMEN DWG. NO. <u>RERUNS</u>								
BENDING FATIGUE										
TEST TEMPERATURE <u>Room</u> °F										
MAT'L. <u>5456/1</u>										
										
$F_s = \frac{1.875 P}{t^2}$										
SPEC. NO.	b (in)	h (in)	DATE	F-FRAC R-ROD IN TENSION	AREA (in ²)	CYCLING DATA			KFCYCLES TO FAILURE	REMARKS
						P max (lbs.)		F _s (lb/in ²)		
020-1-1	2.000	.314	9/14	R		1209		23	292	FAILED
020-1-2	2.000	.314	9/14	R		1104		21	246	FAILED
1-3	2.014	.313	9/8	F		1204		23	905	ROLLERS ONLY
3-1	2.005	.314	10/2	F		1317		25	2426	NO FAILURE
3-2	2.005	.314	1/19	F		1915		34	96	FAILED
3-3	2.004	.313	1/19	F		1885		36	42	FAILED
11-3	2.004	.313	8/6	R		1569		30	7590*	NO FAILURE
11-1	2.002	.313	8/10	R		1571		30	2442	NO FAILURE
3-4	2.002	.310	1/18	R		1642		32	111	FAILED
3-1	2.003	.314	1/18	F		1685		32	149	FAILED
* RESULT IS NOT VALID DUE TO MALFUNCTIONING OF MACHINE										
TESTED BY: <u>WIDMER/WOODS</u>						DATE: <u>8-17-77</u>				

APPENDIX D / STIFFENED PANEL TENSILE TEST DATA

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2 / FATIGUE TEST DATA	B-538

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Figure Number		Page
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D-2	Annotated Example of Data Printout	B-522
D-3	Strain Gage Identifications, Locations and Orientations on Stiffened Panel Tensile Fatigue Test Specimens	B-540

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1 / STATIC TEST DATA

This section contains all recorded test data for the single bay length stiffened panel static tensile test specimens. The data set presented for each specimen starts with an autographic plot of applied load versus axial strain averaged over a 10-inch gage length of the panel center section. Tabulations of the recorded strain gage readings for all applied load increments and calibration checks complete the data set presented for each specimen. Preceding the first data set are an illustration of strain measurement locations on the specimens correlated to data channel numbers, Figure D-1, and an annotated example of data printout, Figure D-2.

Index of Data Sets

Specimen Number	Page
TT802022-3-S1	D-4
TT802022-3-S2	D-8
TT802022-201-S1	D-12
TT802022-201-S2	D-16

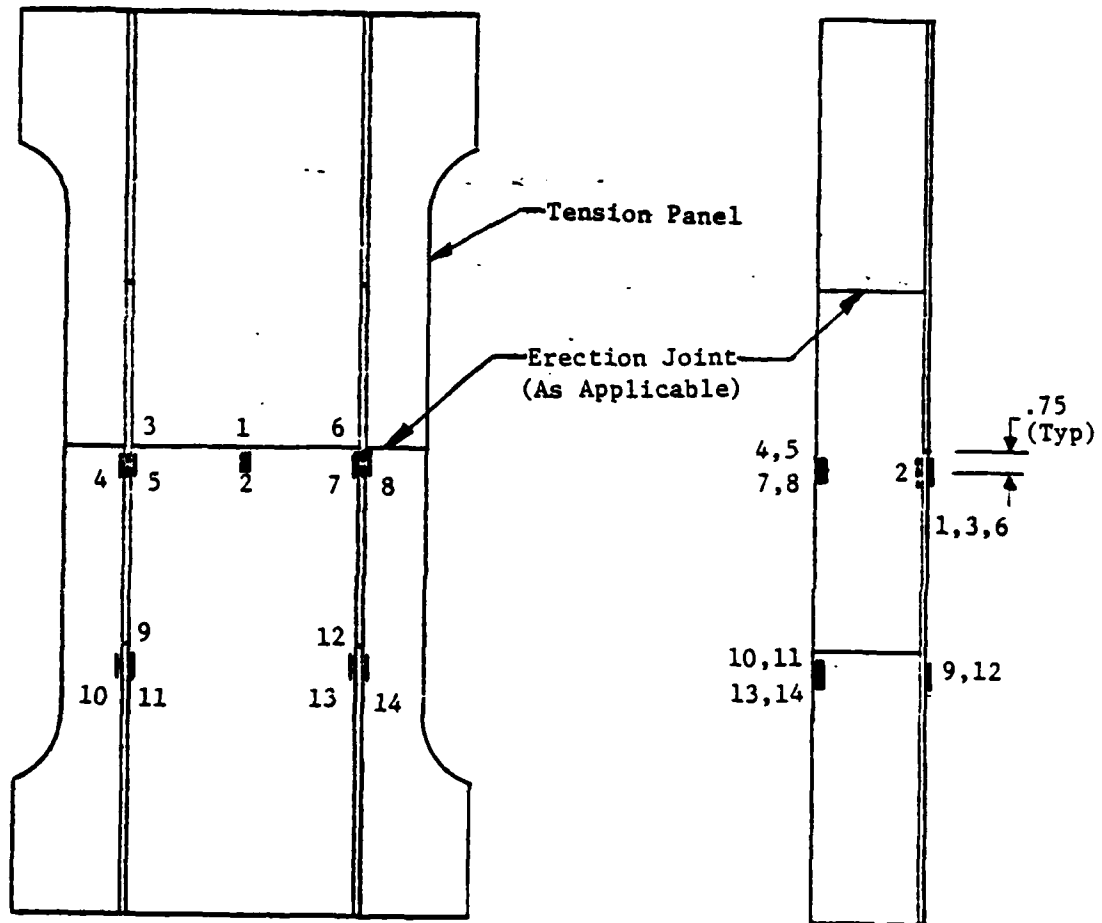
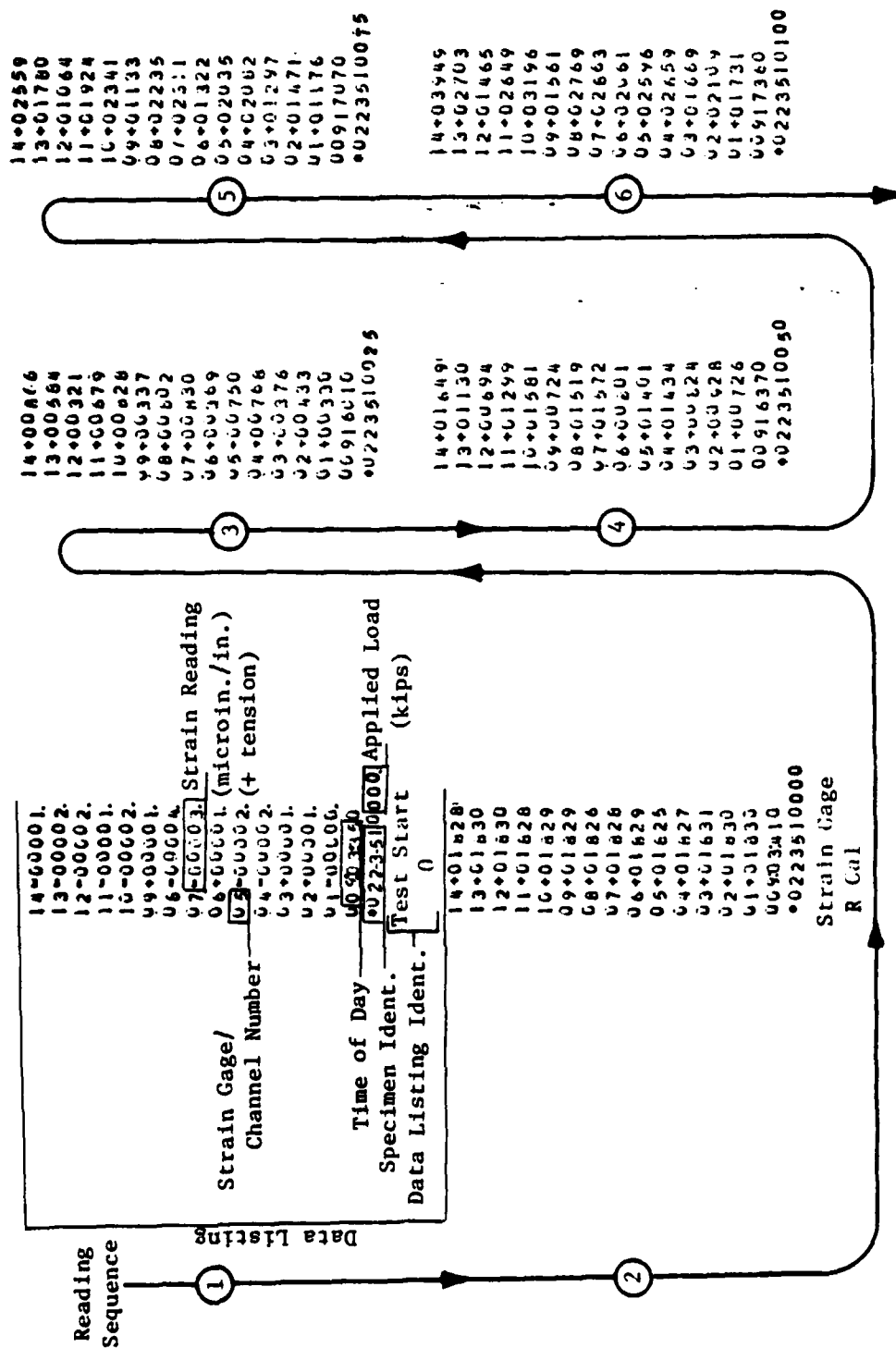
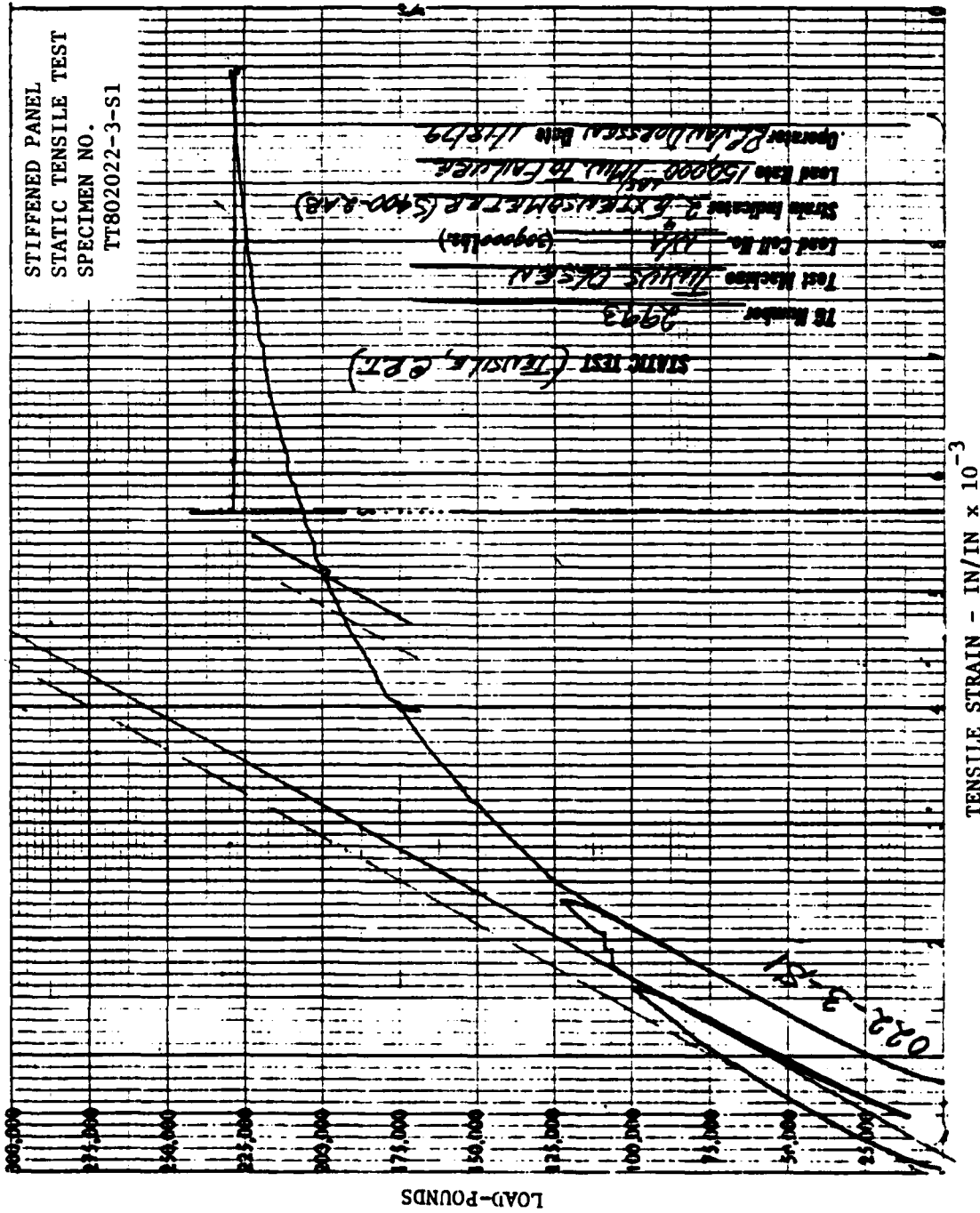


Figure D-1. Strain Gage Identifications, Locations and Orientations on Stiffened Panel Static Tensile Test Specimens.





1/18/79

14-02559	14-00466
13-01760	13-00564
12-01064	12-00321
11-01924	11-00679
10-02341	10-00266
09-00133	09-00337
08-02235	08-00602
07-02511	07-00430
06-01322	06-00369
05-02035	05-00750
04-02082	04-00766
03-01297	03-00376
02-01471	02-00433
01-01176	01-00330
00917070	00916510
00223510075	009100350

14+0168
13+00593
12+00020
11+00168
10+00264
09+00034
08+00101
07+00097
06+00436
05+00067
04+00077
03+00093
02+00230
01+00211
0025090
02235100

Perm. Set Check

Test Start	Load - kips
11:00	0.00
11:05	0.00
11:10	0.00
11:15	0.00
11:20	0.00
11:25	0.00
11:30	0.00
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22:55	0.00
23:00	0.00

0
1401128
1301130
1201130
1101128
1001129
0901129
0801126
0701128
0601129
0501125
0401127
0301131
0201130
0101130
00003410
0023110000

Strain Gage
R Cal

14+016491	14+03945
13+01130	13+02703
12+00694	12+01465
11+01299	11+02649
10+01581	10+03196
09+00724	09+01561
08+01519	08+02769
07+01572	07+02663
06+00201	06+02061
05+01401	05+02596
04+01434	04+02659
03+00624	03+01669
02+00528	02+02109
01+00726	01+01731
00916370	00917360
00223510040	00223510100

14-02029
13-01198
12-00309
11-00877
10-01118
09-00379
08-00703
07-00733
06-00810
05-00698
04-00709
03-00297
02-00668
01-00549
00934150
00223510025

Panel TT802022-3-S1

1/18/79

14+02779
13+01743
12+00661
11+01521
10+01885
09+00751
08+01426
07+01478
06+01209
05+01390
04+01421
03+00723
02+01132
01+00923
0093440
*0223510050

14+04168
13+02790
12+01425
11+02709
10+03267
09+01552
08+02770
07+02862
06+02080
05+02625
04+02689
03+01643
02+02113
01+01735
00935360
*0223510100

14+06672
13+04327
12+01284
11+03227
10+03648
09+01712
08+02592
07+02684
06+02475
05+02614
04+02686
03+01874
02+02295
01+01915
00946440
*0223510100

14+13009
13+09997
12+01934
11+06077
10+06662
09+03146
08+03358
07+03470
06+03998
05+03526
04+03443
03+03417
02+03624
01+03093
00947530
*0223510150

14+03501
13+02280
12+01042
11+02146
10+02615
09+01150
08+02123
07+02196
06+01643
05+02045
04+02043
03+01182
02+01625
01+01327
00935160
*0223510075

14+03719
13+02101
12+00171
11+00676
10+00709
09+00179
08+00258
07+00248
06+00623
05+00051
04+00058
03+00126
02+00404
01+00376
00942640
*0223510000

14+07319
13+04439
12+01670
11+03604
10+04239
09+02118
08+03175
07+03278
06+02931
05+03160
04+03244
03+02345
02+02791
01+02339
00947240
*0223510125

14+07677
13+01133
12+02559
11+11071
10+07952
09+04263
08+03426
07+03543
06+05539
05+03731
04+03889
03+04788
02+04465
01+03952
00948340
*0223510175

Perm. Set Check
0

1/18/79

Panel TT802022-3-S1

14+04396
13+00963
12+03697
11+12635
10+08064
09+05017
08+03322
07+034301
06+081381
05+03757
04+03955
03+07088
02+05611
01+04918
00952480
+0223510200

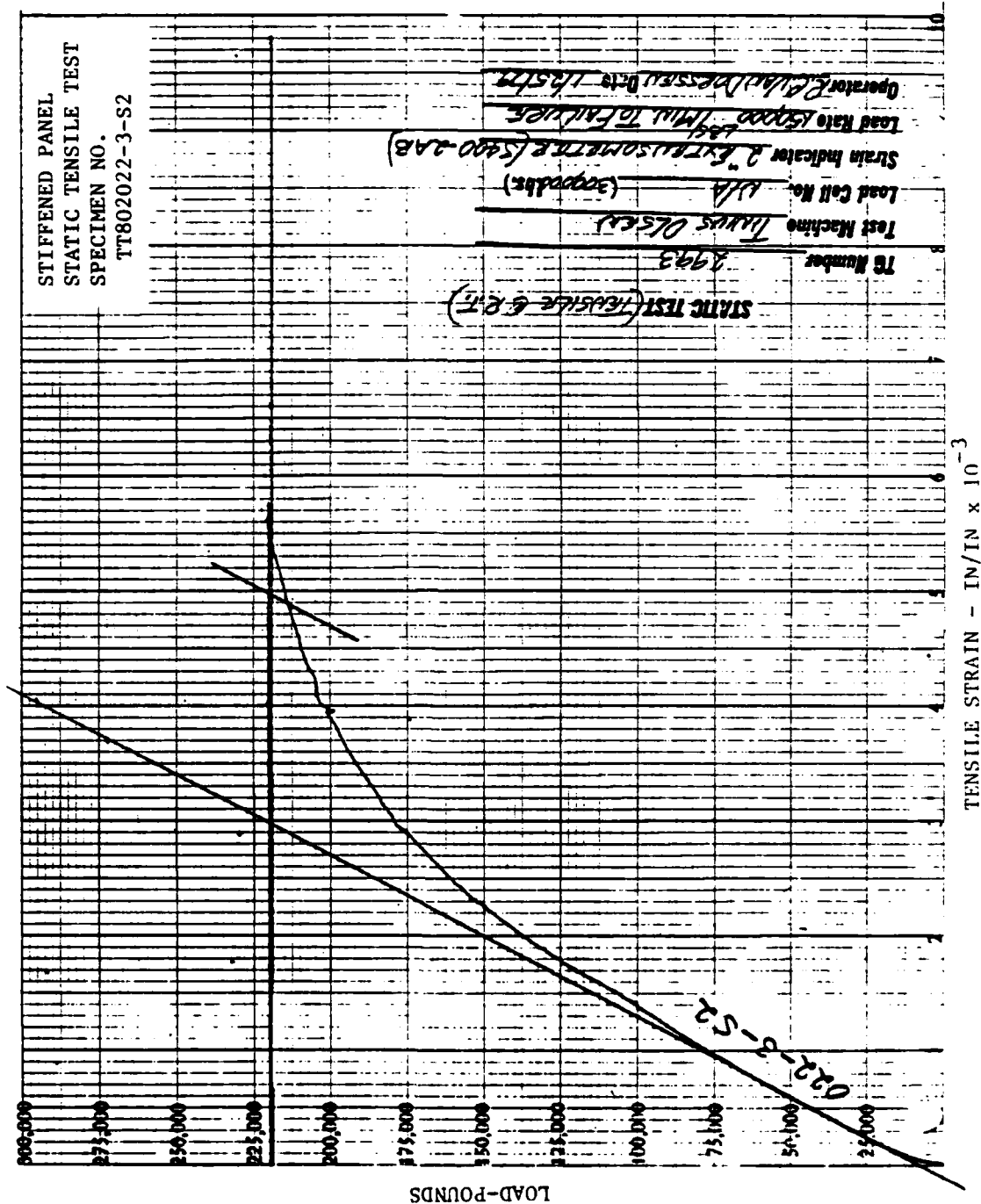
14+03653
13+00928
12+05150
11+12218
10+03541
09+06150
08+03507
07+03673
06+12294
05+04261
04+04604
03+11559
02+06898
01+07208
00954480
+0223510220

14+03719
13+00900
12+10593
11+04745
10+02994
09+16747
08+06573
07+08705
06+04477
05+06954
04+14850
03+03310
02+01599
01+09778
00957310
+0223510240

14+03786
13+00939
12+04520
11+12131
10+03887
09+05642
08+03293
07+03413
06+09922
05+03771
04+04013
03+08489
02+06701
01+05576
00954090
+0223510210

14+03703
13+00915
12+07640
11+07946
10+03067
09+06913
08+04279
07+04571
06+15409
05+07431
04+079521
03+15009
02+05662
01+11076
00955280
+0223510230

14+03754
13+00896
12+09930
11+04719
10+02995
09+17662
08+04175
07+04219
06+04299
05+02517
04+14522
03+03156
02+01503
01+09378
00958090
+0223510245
End of Test



Sheet 1 of 3

Panel TT802022-3-S2 1/25/79

14+000001	14+00583	14+01704	14+03300
13+00000	13+00629	13+01676	13+03729
12+00000	12+00257	12+00493	12+01712
11+00000	11+00702	11+02449	11+0273
10+00000	10+00529	10+01614	10+06449
09+00001	09+00244	09+00788	09+01263
08+00001	08+00503	08+01400	08+02212
07+00001	07+00573	07+01579	07+02482
06+00001	06+00309	06+01034	06+02177
05+00001	05+00554	05+01571	05+02254
04+00000	04+00545	04+01544	04+02216
03+00001	03+00309	03+01281	03+02803
02+00002	02+00321	02+01084	02+02112
01+00002	01+00294	01+00995	01+02112
0149410	01506230	01567150	01509030
0223520	022352025	022352075	0223520125
14+00000	Load-Kips		
01449400			
0223520000			
Test Start			
0			
14+01421	14+01115	14+02381	14+05299
13+01417	13+01216	13+02508	13+04747
12+01418	12+00650	12+01318	12+02099
11+01417	11+01420	11+05116	11+16276
10+01419	10+01422	10+02690	10+11345
09+01417	09+00511	09+01050	09+01724
08+01417	08+00956	08+01806	08+02509
07+01418	07+01083	07+02033	07+02411
06+01417	06+00662	06+01565	06+02976
05+01417	05+01080	05+01503	05+02466
04+01420	04+01061	04+01947	04+02427
03+01419	03+00659	03+01452	03+03783
02+01417	02+00679	02+01569	02+02705
01+01417	01+00623	01+01454	01+02574
01449460	01506500	01567480	01509410
0223520000	0223520050	0223520100	0223520150
Strain Gage			
R Cal			

Panel TT802022-3-S2

1/25/79

14+07497
13+00590
12+03543
11+04545
10+02430
09+04898
08+02619
07+02972
06+05786
05+02539
04+02605
03+07640
02+04000
01+04473
01511320
+0223520200

14+04422
13+00510
12+04895
11+04202
10+02513
09+07320
08+02661
07+03064
06+08996
05+02746
04+02735
03+11327
02+06470
01+07607
01512310
+0223520230

14+066293
13+00457
12+14498
11+04049
10+02366
09+05974
08+09070
07+09766
06+02775
05+07380
04+07207
03+20370
02+17340
01+03456
01514150
+0223520240

14+07442
13+00439
12+12213
11+03987
10+02328
09+05230
08+06846
07+04204
06+02625
05+17128
04+02005
03+29796
02+06136
01+02611
01515360
+0223520260

14+07497
13+00590
12+03543
11+04545
10+02430
09+04898
08+02619
07+02972
06+05786
05+02539
04+02605
03+07640
02+04000
01+04473
01511320
+0223520200

14+04791
13+00471
12+07420
11+04104
10+02463
09+10098
08+03225
07+03695
06+11535
05+03468
04+03516
03+13940
02+09506
01+05198
01513310
+0223520230

14+05490
13+00432
12+14563
11+04000
10+02311
09+04727
08+10001
07+10580
06+02599
05+09831
04+10196
03+21920
02+18234
01+02664
01515670
+0223520250

14+06523
13+00484
12+08655
11+03812
10+02272
09+04920
08+04042
07+03481
06+02593
05+16624
04+01997
03+28130
02+04933
01+01926
01516470
+0223520270

Panel TT802022-3-S2 1/25/79

14+07369
13+00489
12+09289
11+03784
10+02262
09+05428
08+02651
07+03441
06+02608
05+03698
04+01914
03+31504
02+04173
01+01208
01517460
+0223520380

14+07752
13+00446
12+06322
11+03494
10+02175
09+04244
08+02505
07+03510
06+02623
05+03631
04+01519
03+12594
02+04098
01+01194
01534320
+0223520390

14+09444
13+00389
12+04428
11+03154
10+02100
09+04116
08+02444
07+03319
06+02598
05+03586
04+01822
03+11748
02+03874
01+01139
016065701
+0223520295

14+05147
13+00403
12+04340
11+03070
10+02118
09+02855
08+02457
07+03307
06+02606
05+03629
04+01601
03+10630
02+03852
01+01181
01617160
+0223520302

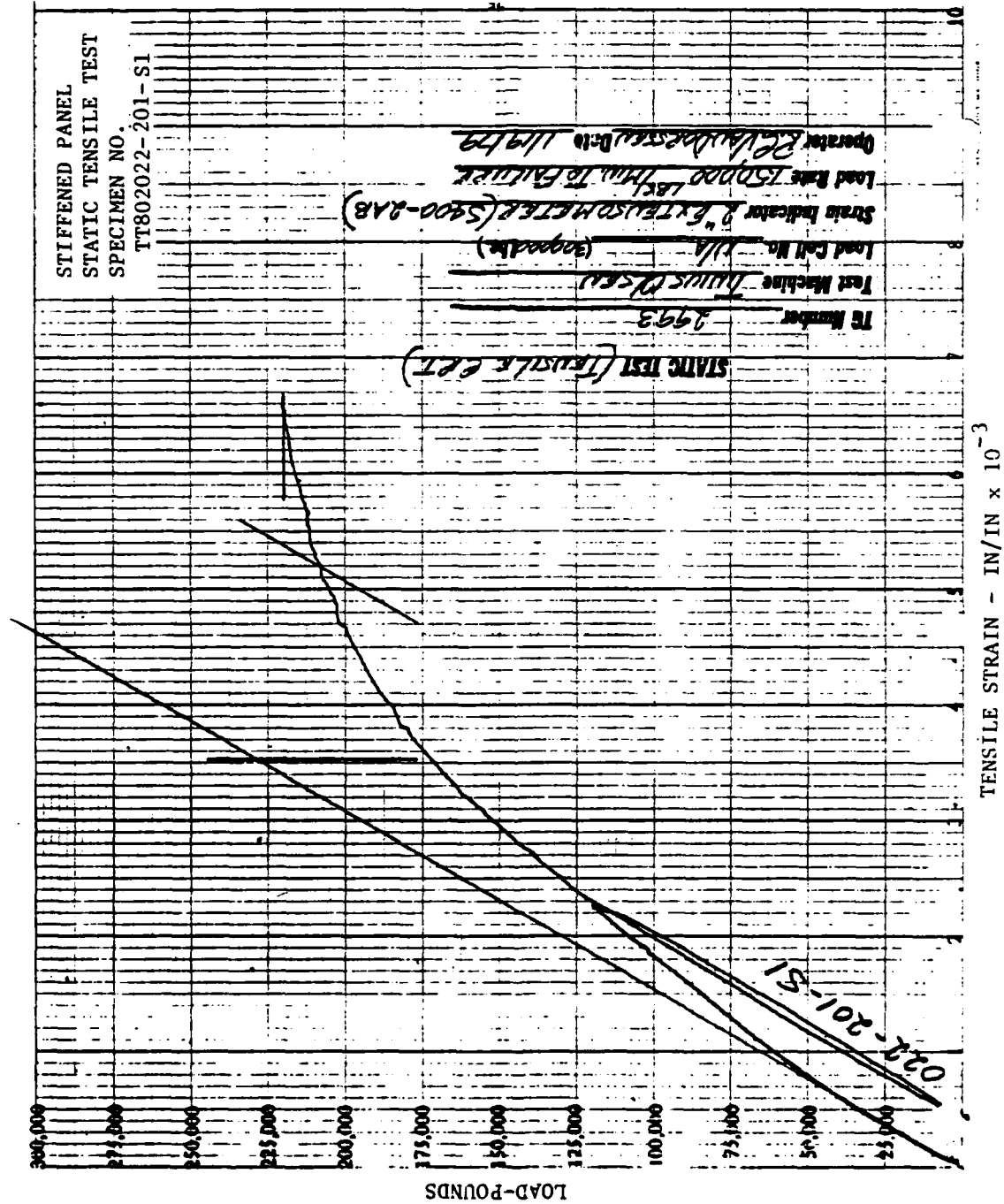
302K

Test Machine Limit

14+07049
13+00494
12+07427
11+03753
10+02235
09+04499
08+02465
07+03534
06+02608
05+03502
04+01905
03+16088
02+04106
01+01213
01519090
+0223520388

14+06496
13+00451
12+06019
11+03495
10+02174
09+04000
08+02450
07+03505
06+02623
05+03629
04+01915
03+12464
02+04099
01+01198
01535060
+0223520293

14+08519
13+00407
12+04430
11+03156
10+02087
09+04165
08+02443
07+03524
06+02606
05+03593
04+01830
03+10983
02+03884
01+01153
01607180
+0223520300



Panel TT802022-201-S1 1/19/79

14-00001
13-00001
12-00000
11-00000
10-00002
09-00001
08-00002
07-00002
06-00004
05-00001
04-00003
03-00001
02-00003
01-00001
0152536
*2220151000
Test Start
0

14-00251
13-00192
12-00049
11-00266
10-00165
09-00073
08-00227
07-00222
06-00006
05-00240
04-00211
03-00406
02-00399
01-00377
01531260
*22201510251
Load - kips

14-01285
13-01150
12-00163
11-01310
10-00995
09-00366
08-01142
07-01144
06-03417
05-01222
04-01693
03-03065
02-02373
01-02280
01535430
*2220151120

14-01428
13-01430
12-01427
11-01428
10-01424
09-01426
08-01426
07-01428
06-01425
05-01427
04-01425
03-01428
02-01425
01-01427
01525400
*2220151000

14-00517
13-00447
12-00095
11-00520
10-00391
09-00156
08-00471
07-00464
06-01144
05-00507
04-00449
03-00479
02-00847
01-00806
01531510
*2220151050

14-01045
13-00925
12-00153
11-01048
10-00608
09-00296
08-00441
07-00926
06-02778
05-00983
04-00670
03-02527
02-01904
01-01830
01533130
*2220151100

14-00045
13-00028
12-00063
11-00055
10-00039
09-00020
08-00265
07-00261
06-01482
05-00152
04-00201
03-01060
02-00403
01-00407
01537160
*2220151000
Perm Set Check
0

Strain Gage
RCal

Panel TT802022-201-S1 1/19/79

14*01300	14*02403	14*03214
13*01150	13*02117	13*02905
12*00169	12*00168	12*00308
11*01314	11*02483	11*03210
10*00497	10*01410	10*02398
09*00356	09*00482	09*00807
08*01190	08*01664	08*03137
07*01170	07*01637	07*03068
06*03452	06*05224	06*12868
05*01242	05*01767	05*03225
04*01111	04*01610	04*03026
03*03054	03*04544	03*14817
02*02372	02*03325	02*03928
01*02276	01*03128	01*10031
01540250	01541220	01546010
*2220151120	*2220151160	*2220151230
14*01553	14*02801	14*03627
13*01379	13*02465	13*03330
12*00175	12*00181	12*00241
11*01571	11*02164	11*03639
10*01163	10*01659	10*02744
09*00421	09*00537	09*00952
08*01422	08*01848	08*08674
07*01396	07*01812	07*08465
06*04275	06*06603	06*03975
05*01466	05*01497	05*07987
04*01343	04*01828	04*08228
03*03760	03*05635	03*21664
02*02835	02*03840	02*03229
01*02699	01*03559	01*02253
01540550	01541550	01546230
*2220151140	*2220151180	*2220151280

Sheet 3 of 3

1/19/79

Panel TT802022-201-S1

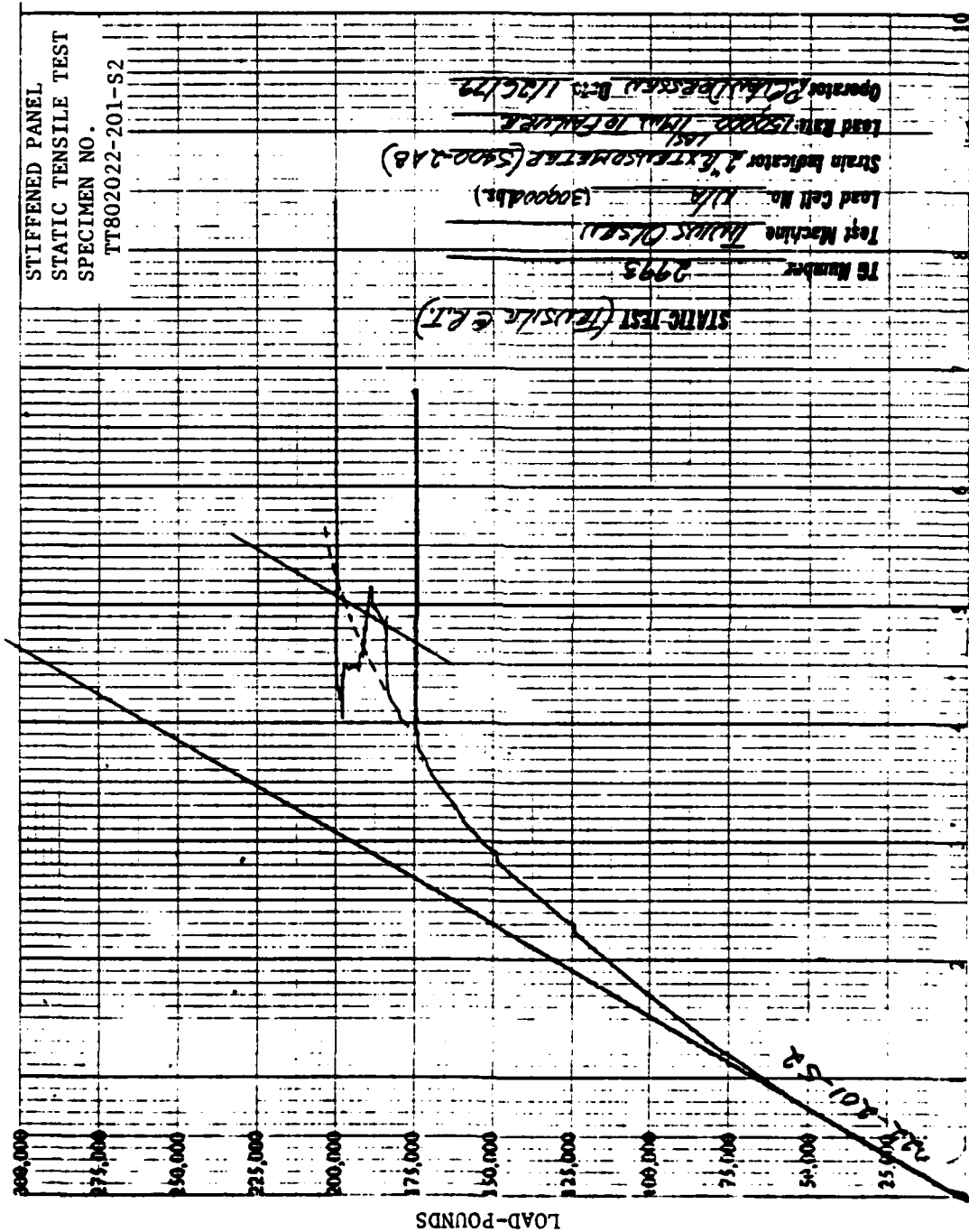
14*01735
 13*01635
 12*00253
 11*01908
 10*00885
 09*01197
 08*05462
 07*05612
 06*03887
 05*01921
 04*13966
 03*05587
 02*03039
 01546330
 *22201512455

245.5 K

14*00999
 13*00923
 12*00138
 11*01040
 10*00086
 09*00394
 08*04952
 07*05086
 06*03567
 05*01665
 04*10194
 03*05218
 02*01463
 01*01744
 01548050
 *2220151000

Post Failure

0



Panel TT802022-201-S2 1/26/79

14*00001	14*00285	14*00871	14*01432
13*00000	13*00127	13*00492	13*01019
12*00001	12*00070	12*00177	12*00262
11*00001	11*00249	11*00713	11*01194
10*00001	10*00125	10*00670	10*01165
09*00000	09*00140	09*00286	09*00433
08*00001	08*00269	08*00633	08*01406
07*00001	07*00293	07*00851	07*01420
06*00000	06*00381	06*01240	06*02433
05*00000	05*00317	05*00503	05*01471
04*00000	04*00301	04*00652	04*01392
03*00000	03*00370	03*00852	03*02731
02*00001	02*00371	03*01436	02*02255
01*00001	01*00374	02*01227	01*02286
01511240	01519420	01520460	01521420
*2220152000	*2220152045	*2220152075	*2220152125
Test Start	Load - kips		
0			
14*01430	14*00554	14*01144	14*01767
13*01428	13*00267	13*00741	13*01308
12*01426	12*00131	12*00226	12*00269
11*01428	11*00494	11*00636	11*01491
10*01428	10*00376	10*00906	10*01452
09*01428	09*00266	09*00358	09*00491
08*01426	08*00576	08*01100	08*01766
07*01424	07*00586	07*01118	07*01778
06*01424	06*00785	06*02150	06*03754
05*01424	05*00631	05*01169	05*01419
04*01424	04*00600	04*01102	04*01726
03*01428	03*00737	03*02156	03*03439
02*01427	02*00771	02*01732	02*02432
01*01428	01*00775	01*01739	01*02832
01511300	01520190	01521170	01522160
*2220152000	*2220152050	*2220152100	*2220152150
Strain Gage			
R Cal			

Panel TT802022-201-S2 1/26/79

14*02105	14*03106	14*01904
13*01610	13*02458	13*00484
12*00277	12*00472	12*00713
11*01614	11*02799	11*03376
10*01748	10*02240	10*03089
09*00528	09*00611	09*00601
08*02104	08*02266	08*01488
07*02121	07*02288	07*07347
06*04796	06*06092	06*02396
05*02150	05*02598	05*02637
04*02050	04*02489	04*01017
03*04405	03*07554	03*02495
02*03627	02*06819	02*01446
01*03380	01*05303	01*01987
01522400	01524580	01526380
*2220152179	*2220152210	*2220152249

14*02455	14*03485	14*01373
13*01496	13*02793	13*00286
12*00316	12*00586	12*00077
11*02159	11*03216	11*01293
10*02085	10*03152	10*00197
09*00588	09*00768	09*00091
08*02295	08*07677	08*01140
07*02312	07*08848	07*07626
06*06675	06*02538	06*02222
05*02455	05*10253	05*01817
04*02347	04*01368	04*00842
03*06205	03*03156	03*02584
02*05072	02*01437	02*01386
01*04327	01*02605	01*01533
01523540	01526140	01534500
*2220152200	*2220152240	*2220152000

Post Failure
0

2 / FATIGUE TEST DATA

This section contains tabulations of all recorded data from the static tensile strain survey tests conducted on selected stiffened panel specimens prior to the start of fatigue testing. In general, such strain surveys were conducted only on those specimens which exceeded the specified distortion limits based on independent measurements made by the test laboratory. The peak localized strain recorded for each specimen was then used as a basis to establish the nominal stress level for fatigue cycling. The peak strain magnification factor for each survey load increment is also tabulated with the recorded strain readings in this section.

Figure D-3, which precedes the tabulated strain data, documents the identifications, locations and orientations of all strain gages installed in various patterns on the stiffened panel fatigue test specimens.

Index of Strain Survey Data Sets

Specimen Number	Page
TT802022-3-F1	B-542
TT802022-3-F2	B-542
TT802022-3-F3	B-543

TER073

Specimen Number	Page
TT802022-11-F1	B-543
TT802022-11-F2	B-543
TT802022-11-F3	B-544
TT802022-103-F1	B-544
TT802022-103-F2	B-544
TT802022-103-F3	B-545
TT802022-107-F1	R-545
TT802022-107-F2	B-546
TT802022-107-F3	B-546
TT802022-201-F3	B-546
TT802022-203-F1	B-547
TT802022-203-F2	B-547
TT802022-203-F3	B-548
TT802022-205-F1	B-548
TT802022-205-F2	B-549
TT802022-205-F3	B-549

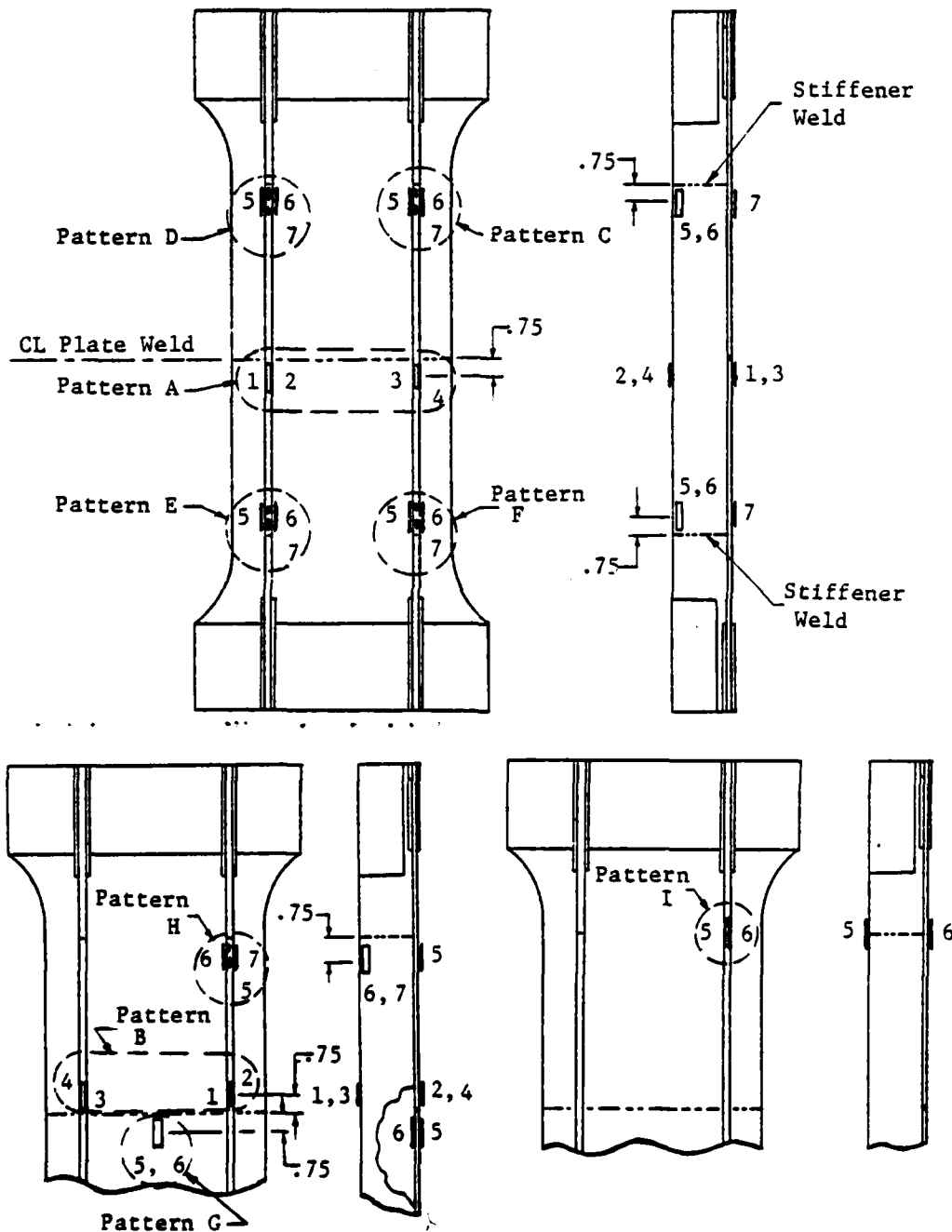


Figure D-3. Strain Gage Identifications, Locations and Orientations on Stiffened Panel Tensile Fatigue Test Specimens. (Sheet 1 of 2).

TER073

STIFFENED PANEL SPECIMEN NO.	APPLICABLE STRAIN GAGE PATTERNS from Sheet 1
TT802022-3-F1	B, H
TT802022-3-F2	A, C
TT802022-3-F3	A, E
TT802022-5-F1	A
TT802022-5-F2	A
TT802022-11-F1	A, H
TT802022-11-F2	A, F
TT802022-11-F3	A, D
TT802022-103-F1	A, D
TT802022-103-F2	A, D
TT802022-103-F3	A, C
TT802022-107-F1	A, C
TT802022-107-F2	A, C
TT802022-107-F3	A, D
TT802022-201-F1	A, G
TT802022-201-F2	A
TT802022-201-F3	A
TT802022-203-F1	A
TT802022-203-F2	A, D
TT802022-203-F3	A, D
TT802022-205-F1	A, I
TT802022-205-F2	A, E
TT802022-205-F3	A

Figure D-3. Strain Gage Identifications, Locations and Orientations on Stiffened Panel Tensile Fatigue Test Specimens (Sheet 2 of 2).

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-3-F1	6.316	0	-	0	0	0	0	0	0	0
		1.58	1.79	300	100	200	100	83	279	275
		3.17	1.72					185	527	529
		4.75	1.68					291	770	777
		6.33	1.69					402	1017	1037
		7.92						518	1259	1295
		9.50	1.69					652	1505	1555
		11.08	1.69	1520	980	1410	1000	803	1765	1820
		11.88	1.70					892	1904	1964
		3.17	1.72					285	608	646
		0	-	0	200	-80	60	74	112	136
		11.08	1.79	1350	1000	1250	750	832	1851	1904
0	-	20	190	-80	160	-	-	-		
TT802022-3-F2	6.292	0	-	0	5	3	3	0	1	10
		1.59	2.22	105	242	104	257	246	343	74
		3.18	2.13	231	461	221	475	474	659	172
		4.76	2.12	359	682	345	709	710	980	271
		6.36	2.10	486	896	471	937	945	1294	369
		7.95	2.10	620	1102	600	1160	1167	1621	470
		0	-	-10	12	5	23	5	-23	18
		7.95	2.10	628	1081	605	1139	1155	1604	451

*Reference Figure D-3 for strain gage locations and orientations.

AD-A087 438

ROHR MARINE INC NATIONAL CITY CA
SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)
MAY 80

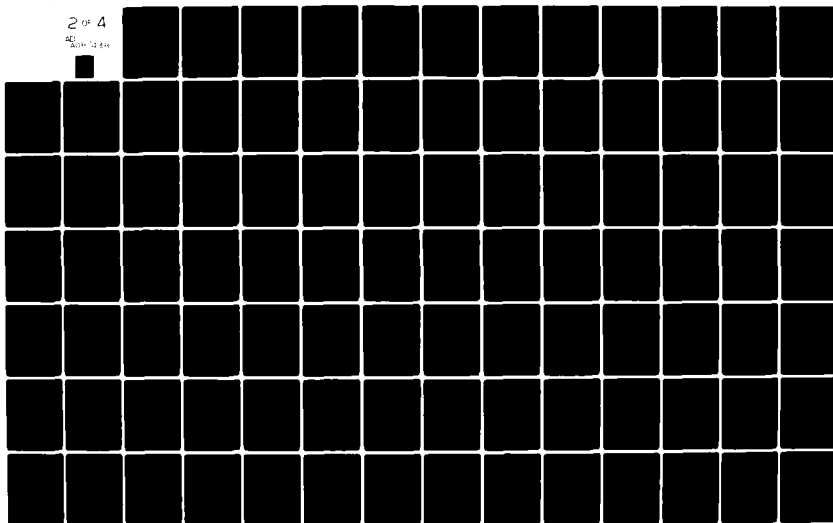
F/G 13/10

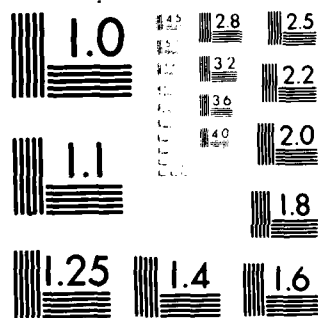
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2 OF 4

AD-A087 438





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4†	SG 5	SG 6	SG 7
TT802022-3-F3	6.304	0	-					0	0	
		1.59	1.3					200	170	
		3.17	1.2					370	300	
		4.75	1.3					600	500	
		6.35	1.38					850	700	370
		7.93	1.39					1070	900	
		9.50	1.38					1270	1080	550
		11.10	1.44					1550	1300	650
		0	-					0	0	0
		9.50	1.48					1350	1170	720
		9.50	1.53				1400	1200	770	
TT802022-11-F1	6.279	0	-	3	2	2	3	11	-2	-8
		2.0	2.41	152	252	156	242	163	81	468
		4.0	2.32	326	473	344	447	345	152	902
		6.0	2.25	500	685	540	625	525	225	1311
		8.0	2.19	690	890	730	820	700	300	1704
		0	-	15	-1	41	7	24	-12	40
TT802022-11-F2	6.263	0	-	0	0	0	0	0	0	0
		2	2.74	146	260	141	262	47	532	140
		4	2.76	308	513	301	520	112	1070	280
		5	2.68	394	621	385	627	138	1300	354
		6	2.72	474	750	462	760	174	1582	416
		0	-	4	-2	-5	2	12	12	18
		7	2.76	565	875	547	897	225	1876	490
		0	-	6	-1	-2	10	2	36	10

*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch									
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7		
TT802022-11-F3	6.316	0	-	0	0	0	0	0	0	0	0	0
		2	2.75	155	264	147	262	533	55	162	55	162
		4	2.54	327	492	311	497	985	98	318	98	318
		6	2.43	511	713	493	722	1417	137	498	137	498
		7	2.39	611	814	582	822	1624	161	583	161	583
		8	2.37	708	918	680	938	1841	186	672	186	672
		0	-	21	-16	26	-15	22	10	27	10	27
TT802022-103-F1	6.325	0	-	0	0	0	0	0	0	0	0	0
		2	.99	191	161	202	143	182	193	168	193	168
		4	1.07	380	355	400	313	386	414	334	414	334
		6	1.13	573	556	602	492	598	65C	508	65C	508
		8	1.17	766	761	814	645	816	908	682	908	682
		10	1.21	958	975	1031	779	1041	1178	854	1178	854
		0	-	-15	62	23	-53	87	124	-19	124	-19
TT802022-103-F2	6.345	0	-	0	0	0	0	0	0	0	0	0
		2	1.26	190	238	162	219	257	245	172	245	172
		4	1.20	389	417	359	400	474	467	350	467	350
		6	1.21	597	586	559	584	697	702	538	702	538
		8	1.21	812	751	763	758	918	936	735	936	735
		9	1.22	929	834	868	847	1039	1068	835	1068	835
		2	-	222	108	162	218	286	304	198	304	198
		10	1.24	1045	925	969	940	1167	1206	932	1206	932
		2	-	236	203	161	219	305	328	205	328	205
		0	-	46	15	-26	30	63	83	45	83	45

*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-103-F3	6.302	0	-	0	3	-3	3	0	2	3
		2	1.59	179	236	161	258	286	309	160
		4	1.40	387	380	356	428	504	544	338
		6	1.34	601	520	561	589	722	778	524
		8	1.29	817	660	770	744	934	1000	711
		9	1.28	925	732	877	821	1050	1119	804
		0	-	4	-1	0	10	29	14	-6
		10	1.29	1029	831	981	907	1193	1256	891
		0	-	4	2	6	-10	58	31	-10

TT802022-107-F1	6.344	0	-	0	0	0	0	0	0	0
		2	1.67	162	248	164	246	324	314	146
		4	1.54	345	451	353	437	596	575	314
		6	1.41	538	639	550	604	823	800	494
		8	1.38	732	814	747	778	1068	1034	673
		9	1.39	839	880	850	869	1212	1171	752
		10	1.39	942	954	947	960	1352	1303	843
		2	-	180	176	187	182	270	259	170
		11	1.40	1042	1044	1045	1063	1494	1436	922
		12	1.41	1145	1133	1149	1156	1637	1566	1030
		2	187	161	191	185	299	273	186	
		0	-	4	-15	7	12	88	61	7

*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-107-F2	6.311	0	-	0	0	0	0	0	0	0
		2	1.31	190	177	185	175	239	254	159
		4	1.35	380	372	375	372	506	525	313
		6	1.39	576	569	569	571	792	811	477
		8	1.41	775	745	766	761	1072	1098	638
		10	1.40	978	920	975	930	1318	1358	816
		0	-	4	2	2	13	44	68	5
TT802022-107-F3	6.311	0	-	0	0	0	0	0	0	0
		2	2.0	167	262	163	268	388	195	154
		4	1.86	358	441	347	486	721	359	324
		6	1.83	554	628	537	703	1065	531	517
		7	1.80	656	712	635	806	1225	611	620
		8	1.78	758	790	736	905	1386	692	727
		2	-	179	212	172	267	430	208	200
9	1.78	861	868	841	1002	1557	777	839		
0	-	10	-6	12	25	94	40	68		
TT802022-201-F3	6.277	0	-	0	0	0	0	0		
		13.54	1.37	1660	860	1805	925			
		0	-	340	-200	470	-220			
		Δ 0	0	0	0	0	0			
		13.54	1370	1030	1340	1140				
0		0	0	0	0					

*Reference Figure D-3 for strain gage locations and orientations.

Δ Strain gages re-zeroed for repeat run.

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-203-F1	6.317	0	-	0	0	0	0	0		
		1.58	1.10	125	168	123	160			
		3.16	1.08	263	332	258	327			
		4.75	1.07	409	494	400	493			
		6.33	1.06	560	651	549	641			
		7.90	1.06	713	809	703	780			
		9.50	1.05	870	972	858	925			
		11.10	1.07	1023	1150	1003	1096			
		12.65	1.08	1184	1323	1158	1250			
		13.45	1.10	1287	1437	1250	1318			
		0	-	35	58	32	-73			
TT802022-203-F2	6.351	0	-	0	0	0	0	0	0	0
		1.58	1.45	144	168	142	164	150	222	132
		3.15	1.54	296	353	276	347	297	471	256
		4.72	1.58	412	542	416	533	448	726	383
		6.30	1.61	550	729	555	714	600	982	514
		7.87	1.62	693	907	696	899	750	1238	650
		8.65	1.63	765	993	768	988	823	1365	720
		0	-	17	4	6	19	17	9	30
		8.65	1.70	750	1048	753	1042	859	1415	706

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-203-F3	6.342	0	-	0	0	0	0	0	0	0
		1.58	1.45	113	202	114	195	223	218	100
		3.15	1.53	246	395	248	394	468	431	205
		4.73	1.52	380	577	383	589	700	635	318
		6.31	1.50	532	744	521	782	918	823	441
		7.88	1.45	686	893	665	961	1111	992	577
		8.67	1.42	765	966	737	1046	1198	1072	651
		0	-	12	-55	-15	15	-82	-45	49
		7.88	1.39	694	860	672	937	1063	946	601
		0	-	9	-57	-16	+15	-85	-48	49

TT802022-205-F1	6.316	0	-	0	0	0	0	0	0	
		2	1.16	165	205	170	225	171	174	
		4	1.09	347	395	345	423	330	350	
		6	1.06	535	576	528	617	486	531	
		8	1.02	730	750	710	789	621	713	
		9	1.00	829	779	707	870	687	805	
		10	.98	930	855	902	949	755	894	
		0	-	5	27	-1	24	22	-4	
		11	.99	1026	970	992	1060	844	879	
		12	.99	1123	1056	1089	1154	911	1063	
		0	-	4	-26	-4	29	25	-31	

*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel
Fatigue Test Specimens.

Specimen No.	Section Area (in ²)	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-205-F2	6.306	0	-	0	0	0	0	0	0	0
		2	1.69	166	228	154	247	328	226	160
		4	1.56	346	434	322	452	606	415	323
		6	1.48	536	600	498	647	864	590	500
		8	1.42	730	775	682	826	1099	754	682
		0	-	5	-53	1	12	-4	10	9
		9	1.43	834	861	781	922	1252	848	778
		0	-	4	-58	0	15	14	8	14
		10	1.57	931	952	874	1015	1521	903	877
		0	-	3	-53	2	6	163	-27	22
TT802022-205-F3	6.318	0	-	0	0	0	0			
		2	1.23	166	238	173	217			
		4	1.12	349	434	359	409			
		6	1.08	537	630	551	584			
		8	1.06	725	824	751	736			
		9	1.05	820	917	848	778			
		10	1.04	918	1007	952	836			
		0	-	2	126	20	-26			

*Reference Figure D-3 for strain gage locations and orientations.

APPENDIX E / STIFFENED PANEL COMPRESSION TEST DATA

This appendix contains all recorded test data for the stiffened panel compression test specimens. The data set presented for each specimen consists of an autographic plot of applied load versus total compressive deformation and a tabulation of displacement transducer and strain gage readings for calibration and each applied load increment. Preceding the first data set are illustrations of strain and displacement measurement locations correlated to data channel numbers (Figure E-1 and E-2) and an annotated example of data printout (Figure E-3).

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List of Illustrations

Figure Number		Page
E-1	Strain Gage Identification and Locations for Com- pression Test Panels	B-554
E-2	Displacement Gage Identification and Locations for Compression Test Panels	B-555
E-3	Annotated Example of Data Printout	B-556

List of Data Sets

Specimen No.	Page
TT802023-3-1	B-556
TT802023-3-2	B-562
TT802023-7-1	B-567
TT802023-7-2	B-572
TT802023-11-1	B-577
TT802023-11-2	B-588
TT802023-101-1	B-589
TT802023-101-2	B-594
TT802023-103-1	B-599
TT802023-103-2	B-604
TT802023-105-1	B-609
TT802023-105-2	B-613
TT802023-107-1	B-618
TT802023-107-2	B-623
TT802023-111-1	B-628
TT802023-111-2	B-632
TT802023-201-1	B-637
TT802023-201-2	B-642
TT802023-203-1	B-648
TT802023-203-2	B-653
TT802023-205-1	B-658
TT802023-205-2	B-663
TT802023-207-1	B-668
TT802023-207-1	B-673
TT802023-211-1	B-678
TT802023-211-2	B-683

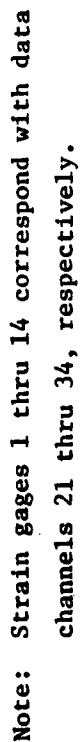
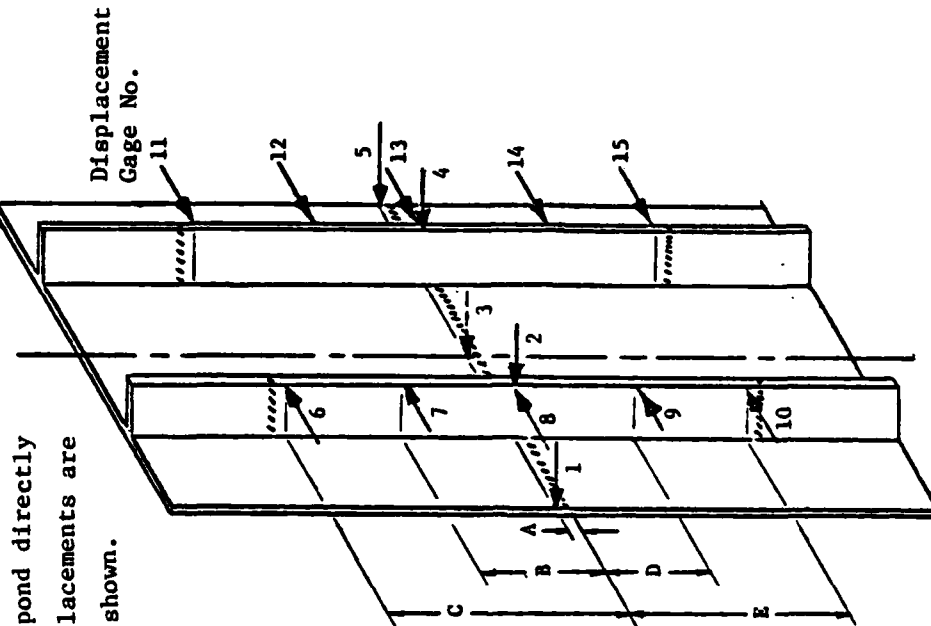


Figure E-1. Strain Gage Identification and Locations for Compression Test Panels.



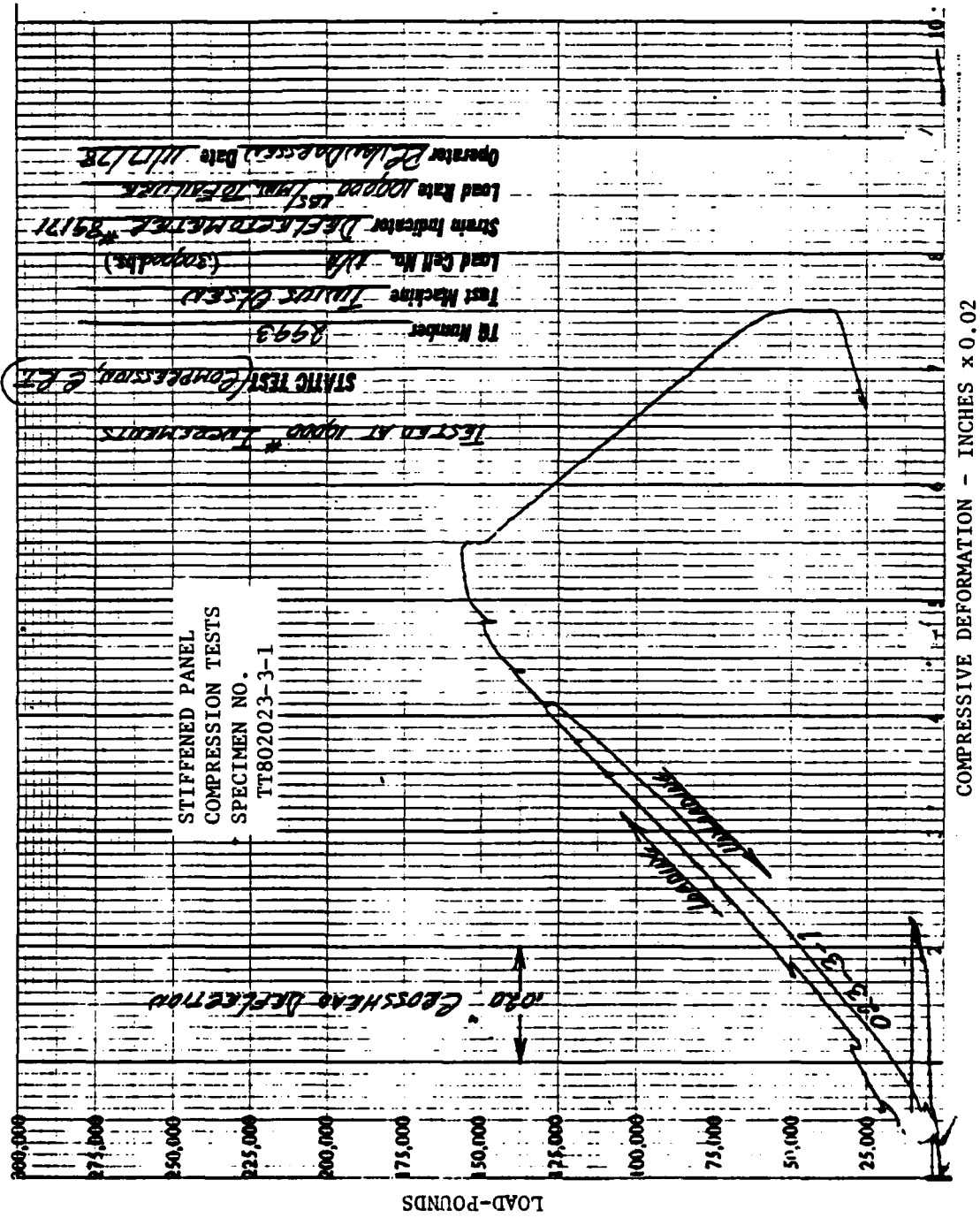
Note: Displacement gage numbers correspond directly with data channel numbers. Displacements are positive in the arrow direction shown.

Specimen No. TT802023 -	Dimensions (inches)				
	A	B	C	D	E
-3-1	.5	6.0	11.5	6.0	11.5
-3-2	.5	6.0	11.5	6.0	11.5
-7-1	.5	6.0	11.5	6.0	11.5
-7-2	.5	6.0	11.5	6.0	11.5
-11-1	.5	3.0	11.5	3.0	11.5
-11-2	.5	3.0	11.5	3.0	11.5
-101-1	.5	6.0	11.5	6.0	11.5
-101-2	.5	6.0	11.5	6.0	11.5
-103-1	.5	6.0	11.25	6.0	11.25
-103-2	.5	6.0	11.25	6.0	11.25
-105-1	.5	6.0	11.5	6.0	11.5
-105-2	.5	6.0	11.5	6.0	11.5
-107-1	.5	6.0	11.5	6.0	11.5
-107-2	.5	6.0	11.5	6.0	11.5
-111-1	.5	6.0	11.5	6.0	11.5
-111-2	.5	6.0	11.25	6.0	11.25
-201-1	.5	6.0	11.25	6.0	11.25
-201-2	.5	6.0	11.25	6.0	11.25
-203-1	.5	6.0	11.0	6.0	11.0
-203-2	.5	6.0	11.0	6.0	11.0
-205-1	.5	6.0	11.25	6.0	11.25
-205-2	.5	6.0	11.25	6.0	11.25
-207-1	.25	5.75	11.5	6.25	11.5
-207-2	.5	6.0	11.5	6.0	11.5
-211-1	.5	6.0	11.5	6.0	11.5
-211-2	.5	6.0	11.5	6.0	11.5

Figure E-2. Displacement Gage Identification and Locations for₃ for Compression Test Panels.

Strain gage numbers 1 thru 14 respectively; gage readings in microinches per inch.	34-01215	
	33-01162	
	32-01539	
	31-00898	
	30-00987	
	29-01422	
	28-01737	
	27-01785	Strain gage No. 7;
	26-01546	Strain = 1785 μ in./in. compression.
	25-01472	
	24-01560	
	23-01395	
	22-01500	
	21-01534	
Displacement gage numbers 1 thru 15; gage readings in .001 inch.	~~20-00003~~	
	~~19-00004~~	
	~~18-00008~~	
	~~17-00006~~	
	~~16-00011~~	
	15-00001.	
	14-00004.	
	13-00001.	
	12-00009.	
	11-00012.	
	10-00004.	
	09-00010.	Displacement gage No. 8;
	08-00019.	Displacement = .019 in. outboard.
	07-00020.	
	06-00012.	
05-00009.		
04-00014.		
03-00014.		
02-00014.		
01-00010.	Time = 13h 59 m 22s.	
01359220	Last digit is ignored.	
01117700		
100K	Applied load in kips	

Figure E-3. Annotated Example of Data Printout.



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PANEL TT802023-3-1

34-00002
33-00002
32-00000
31-00001
30-00002
29-00001
28-00001
27-00000
26-00000
25-00000
24-00001
23-00001
22-00000
21-00000
20-00000
19-00000
18-00000
17-00000
16-00000
15-00000
14-00001
13-00000
12-00000
11-00000
10-00001
09-00000
08-00001
07-00001
06-00000
05-00000
04-00002
03-00001
02-00000
01-00000
0134390
0111780

Test Start
0

34-01412
33-01414
32-01416
31-01415
30-01417
29-01411
28-01413
27-01412
26-01410
25-01408
24-01409
23-01411
22-01410
21-01410
0134430
0111780

Strain Gage
R Cal

34-00142
33-00137
32-00135
31-00038
30-00051
29-00096
28-00186
27-00191
26-00157
25-00093
24-00094
23-00084
22-00120
21-00122
20-00094
19-00093
18-00094
17-00097
16-00094
15-00001
14-00001
13-00000
12-00005
11-00005
10-00002
09-00004
08-00007
07-00006
06-00006
05-00009
04-00009
03-00010
02-00008
01-00005
01349180
0111780

10K

34-00289
33-00279
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31-00125
30-00139
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28-00391
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22-00270
21-00274
20-00263
19-00093
18-00096
17-00097
16-00094
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13-00005
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04-00009
03-00006
02-00010
01-00005
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0111780

20K

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29-00379
28-00570
27-00764
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25-00549
24-00574
23-00501
22-00564
21-00570
20-00609
19-00404
18-00406
17-00405
16-00404
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12-00009
11-00008
10-00003
09-00004
08-00009
07-00011
06-00009
05-00004
04-00009
03-00010
02-00009
01-00009
01351170
0111780

30K

34-00532
33-00516
32-00613
31-00325
30-00350
29-00522
28-00747
27-00764
26-00410
25-00549
24-00574
23-00501
22-00564
21-00570
20-00609
19-00404
18-00406
17-00405
16-00404
15-00001
14-00004
13-00004
12-00009
11-00011
10-00002
09-00006
08-00014
07-00010
06-00010
05-00009
04-00009
03-00011
02-00013
01-00009
01352440
0111780

40K

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PANEL TT802023-3-1 11/17/78

34-00652	34-00768	34-00882	34-01003	34-01112	34-01215
33-00634	33-00747	33-00858	33-00975	33-01081	33-01182
32-00760	32-00908	32-01057	32-01221	32-01377	32-01539
31-00424	31-00523	31-00619	31-00721	31-00813	31-00898
30-00457	30-00563	30-00670	30-00784	30-00886	30-00987
29-00664	29-00808	29-00954	29-01121	29-01263	29-01422
28-00918	28-01087	28-01254	28-01429	28-01589	28-01737
27-00640	27-01113	27-01284	27-01451	27-01628	27-01785
26-00756	26-00905	26-01055	26-01218	26-01376	26-01546
25-00709	25-00866	25-01024	25-01186	25-01335	25-01472
24-00743	24-00910	24-01076	24-01252	24-01412	24-01560
23-00641	23-00783	23-00927	23-01084	23-01235	23-01395
22-00712	22-00863	22-01014	22-01171	22-01335	22-01500
21-00719	21-00871	21-01024	21-01189	21-01353	21-01534
20-00604	20-00803	20-00965	20-01135	20-01306	20-01483
19-00603	19-00806	19-01002	19-01171	19-01344	19-01521
18-00609	18-00814	18-01014	18-01189	18-01362	18-01539
17-00606	17-00811	17-01019	17-01194	17-01376	17-01553
16-00611	16-00816	16-01024	16-01199	16-01376	16-01553
15-00601	15-00801	15-00901	15-01001	15-01101	15-01201
14-00603	14-00804	14-00904	14-01004	14-01104	14-01204
13-00609	13-00809	13-00909	13-01009	13-01109	13-01209
12-00612	12-00812	12-00912	12-01012	12-01112	12-01212
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07-00610	07-00810	07-00910	07-01010	07-01110	07-01210
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05-00609	05-00809	05-00909	05-01009	05-01109	05-01209
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01-00610	01-00810	01-00910	01-01010	01-01110	01-01210
01353380	01355050	01356010	01357130	01358080	01359220
01117780	01117780	01117780	01117780	01117780	01117780
	60K	70K	80K	90K	100K

SHEET 3 of 4

11/17/78

PANEL TT802023-3-1

34-01309	34-01396	34-0145C	34-00067	34-01456
33-01276	33-01368	33-01451	33-00081	33-01469
32-01717	32-01905	32-02132	32-00407	32-02161
31-00976	31-01052	31-01118	31-00050	31-01111
30-01660	30-01164	30-01221	30-00046	30-01213
29-01590	29-01768	29-01962	29-00209	29-02008
28-01872	28-02601	28-02692	28-00113	28-02094
27-01935	27-02084	27-02222	27-00151	27-02234
26-01738	26-01943	26-02203	26-00487	26-02240
25-01598	25-01716	25-01804	25-00025	25-01810
24-01693	24-01820	24-01912	24-00041	24-01912
23-01573	23-01766	23-02001	23-00347	23-02035
22-01677	22-01859	22-02055	22-00362	22-02080
21-01739	21-01963	21-02250	21-00500	21-02295
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19-00002	19-00003	19-00006	19-00002	19-00003
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17-00000	17-00000	17-00007	17-00006	17-00006
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07-00019	07-00024	07-00028	07-00006	07-00029
06-00013	06-00012	06-00012	06-00005	06-00012
05-00009	05-00009	05-00013	05-00027	05-00017
04-00018	04-00022	04-00027	04-00029	04-00031
03-00020	03-00023	03-00032	03-00027	03-00036
02-00017	02-00017	02-00027	02-00027	02-00027
01-00011	01-00010	01-00012	01-00023	01-00015
01400260	01403040	01404040	01407060	01409450
01117780	01117780	01117780	01117780	01117780

110K

120K

130K

0 after 130K
Perm. Set Check

10K

130K

SHEET 4 of 4

11/17/78

PANEL TT802023-3-1

34-01462
33-01600
32-02384
31-01218
30-01235
29-02221
28-02170
27-02382
26-02493
25-01909
24-02007
23-02267
22-02231
21-02522
20-00002
19-00004
18-00000
17-00006
16-00011
15-00001
14-00018
13-00014
12-00009
11-00011
10-00005
09-00004
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02-00033
01-00014
0141020
0111780

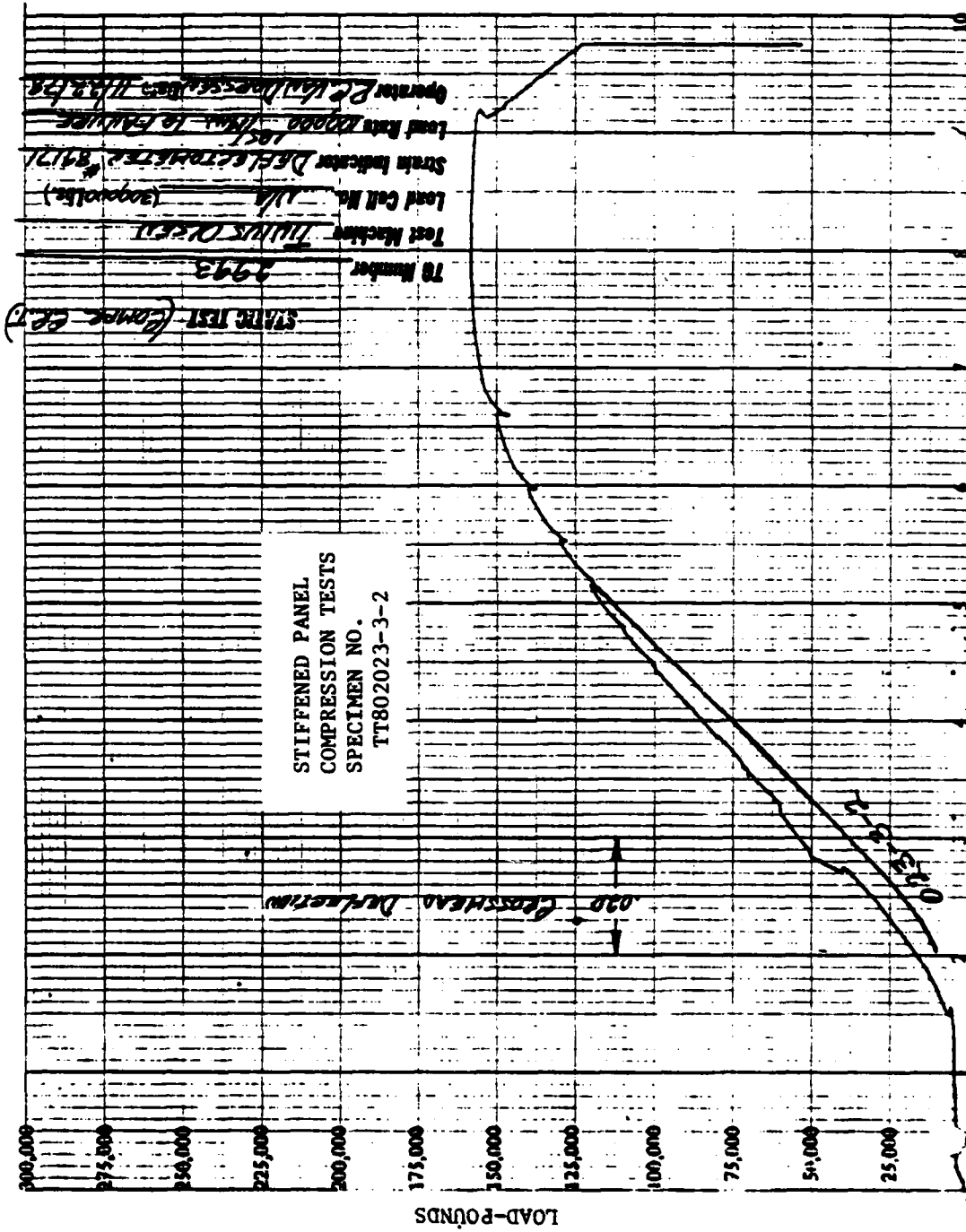
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33-01890
32-02715
31-01454
30-01047
29-02525
28-02027
27-02504
26-02979
25-01939
24-01459
23-02677
22-02198
21-02529
20-00004
19-00004
18-00009
17-00006
16-00004
15-00001
14-00063
13-00041
12-00045
11-00009
10-00003
09-00031
08-00054
07-00074
06-00014
05-00009
04-00049
03-00088
02-00047
01-00009
0141080
0111780

150K

34-00448
33-00092
32-00731
31-00027
30-00188
29-00540
28-01120
27-01791
26-00163
25-00429
24-00349
23-01136
22-01469
21-01279
20-00004
19-00007
18-00012
17-00010
16-00015
15-00025
14-00388
13-00130
12-00055
11-00006
10-00013
09-00276
08-00073
07-00050
06-00012
05-00023
04-00716
03-00489
02-00732
01-00801
0141640
0111780

Post Buckling
0



COMPRESSIVE DEFORMATION - INCHES x 0.02

SHEET 1 of 4

11/22/78

PANEL TT802023-3-2

Strain Gage Zero Ref.	Strain Gage R Cal	Test Start "0" @ .5K	10K	20K	30K
34-00000	34-00007	34-00102	34-00195	34-00292	
33-00001	33-00006	33-00094	33-00184	33-00276	
32-00002	32-00004	32-00122	32-00208	32-00298	
31-00000	31-00007	31-00088	31-00184	31-00282	
30-00001	30-00006	30-00083	30-00184	30-00286	
29-00000	29-00010	29-00144	29-00314	29-00471	
28-00000	28-00008	28-00140	28-00292	28-00439	
27-00001	27-00008	27-00147	27-00306	27-00462	
26-00000	26-00005	26-00122	26-00267	26-00408	
25-00001	25-00010	25-00139	25-00311	25-00473	
24-00000	24-00010	24-00128	24-00285	24-00432	
23-00001	23-00010	23-00138	23-00295	23-00441	
22-00000	22-00008	22-00116	22-00249	22-00377	
21-00001	21-00009	21-00140	21-00304	21-00464	
20-00000	20-00007	20-00004	20-00004	20-00004	
19-00001	19-00005	19-00006	19-00006	19-00006	
18-00000	18-00001	18-00011	18-00011	18-00011	
17-00001	17-00008	17-00002	17-00002	17-00002	
16-00000	16-00011	16-00012	16-00012	16-00012	
15-00000	15-00000	15-00000	15-00000	15-00000	
14-00001	14-00001	14-00000	14-00001	14-00001	
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11-00000	11-00000	11-00000	11-00000	11-00000	
10-00004	10-00004	10-00003	10-00004	10-00004	
09-00001	09-00001	09-00001	09-00002	09-00001	
08-00000	08-00000	08-00000	08-00000	08-00001	
07-00000	07-00000	07-00000	07-00000	07-00000	
06-00000	06-00000	06-00000	06-00000	06-00000	
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03-00005	03-00005	03-00014	03-00014	03-00014	
02-00005	02-00005	02-00015	02-00015	02-00015	
01-00005	01-00005	01-00014	01-00018	01-00018	
01503220	01503220	01504190	01504490	01505210	
01122780	01122780	01122780	01122780	01122780	

DEFL. IND.
ZERO REF.
@ 1K

Strain Gage
Zero Ref.

Strain Gage
R Cal

SHEET 2 of 4

11/22/78

PANEL TT802023-3-2

34-00394	34-00498	34-00611	34-00826	34-00934
33-00372	33-00464	33-00568	33-00750	33-00829
32-00595	32-00754	32-00911	32-01224	32-01387
31-00379	31-00485	31-00577	31-01068	31-01387
30-00389	30-00501	30-00602	30-00765	30-00844
29-00625	29-00774	29-00926	29-01232	29-01389
28-00586	28-00737	28-00885	28-01156	28-01261
27-00618	27-00782	27-00945	27-01266	27-01421
26-00551	26-00704	26-00859	26-01173	26-01344
25-00637	25-00804	25-00968	25-01255	25-01451
24-00578	24-00724	24-00863	24-01122	24-01222
23-00587	23-00736	23-00888	23-01159	23-01372
22-00504	22-00634	22-00761	22-00958	22-01101
21-00627	21-00803	21-00991	21-01399	21-01669
20-00607	20-00807	20-00907	20-01600	20-01807
19-00604	19-00804	19-00904	19-01604	19-01804
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17-00608	17-00808	17-00908	17-01608	17-01808
16-00611	16-00811	16-00911	16-01611	16-01811
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08-00603	08-00803	08-00903	08-01603	08-01803
07-00601	07-00801	07-00901	07-01601	07-01801
06-00600	06-00800	06-00900	06-01600	06-01800
05-00618	05-00818	05-00923	05-01627	05-01827
04-00616	04-00816	04-00917	04-01617	04-01816
03-00613	03-00814	03-00914	03-01610	03-01807
02-00615	02-00815	02-00915	02-01615	02-01815
01-00618	01-00818	01-00923	01-01623	01-01824
01505590	01506310	01507230	01509520	01510560
01122780	01122780	01122780	01122780	01122780

40K

50K

60K

70K

80K

90K

SHEET 3 of 4

11/22/78

PANEL TT802023-3-2

34-01044	34-01155	34-00034	34-01255	34-01360
33-00699	33-00953	33-00006	33-00975	33-00988
32-01561	32-01745	32-00284	32-01967	32-02177
31-00916	31-00972	31-00023	31-00996	31-01015
30-01032	30-01136	30-00050	30-01237	30-01337
29-01557	29-01731	29-00267	29-01442	29-02146
28-01337	28-01362	28-00054	28-01272	26-01128
27-01582	27-01739	27-00086	27-01908	27-02099
26-01334	26-01744	26-00365	26-02023	26-02300
25-01610	25-01769	25-00069	25-01934	25-02121
24-01293	24-01317	24-00057	24-01232	24-01095
23-01566	23-01786	23-00408	23-02081	23-02376
22-01171	22-01232	22-00150	22-01180	22-01035
21-01987	21-02356	21-00601	21-02683	21-03402
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11-00000	11-00000	11-00001	11-00000	11-00000
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09-00016	09-00016	09-00005	09-00028	09-00036
08-00018	08-00018	08-00004	08-00027	08-00032
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04-00012	04-00012	04-00009	04-00004	04-00005
03-00008	03-00008	03-00001	03-00025	03-00040
02-00011	02-00011	02-00007	02-00002	02-00006
01-00027	01-00027	01-00009	01-00024	01-00027
01513240	01513240	01515420	01518230	01519250
01122780	01122780	01122780	01122780	01122780
110K	110K	10K	120K	130K

PANEL TT802023-3-2

34-01454
33-00962
32-02455
31-01001
30-01421
29-02420
28-00767
27-02343
26-02708
25-02363
24-00749
23-02815
22-00491
21-04224
19-00405
18-00041
17-00408
16-00412
15-00003
14-00048
13-00047
12-00036
11-00001
10-00008
09-00054
08-00043
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06-00109
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04-00019
03-00066
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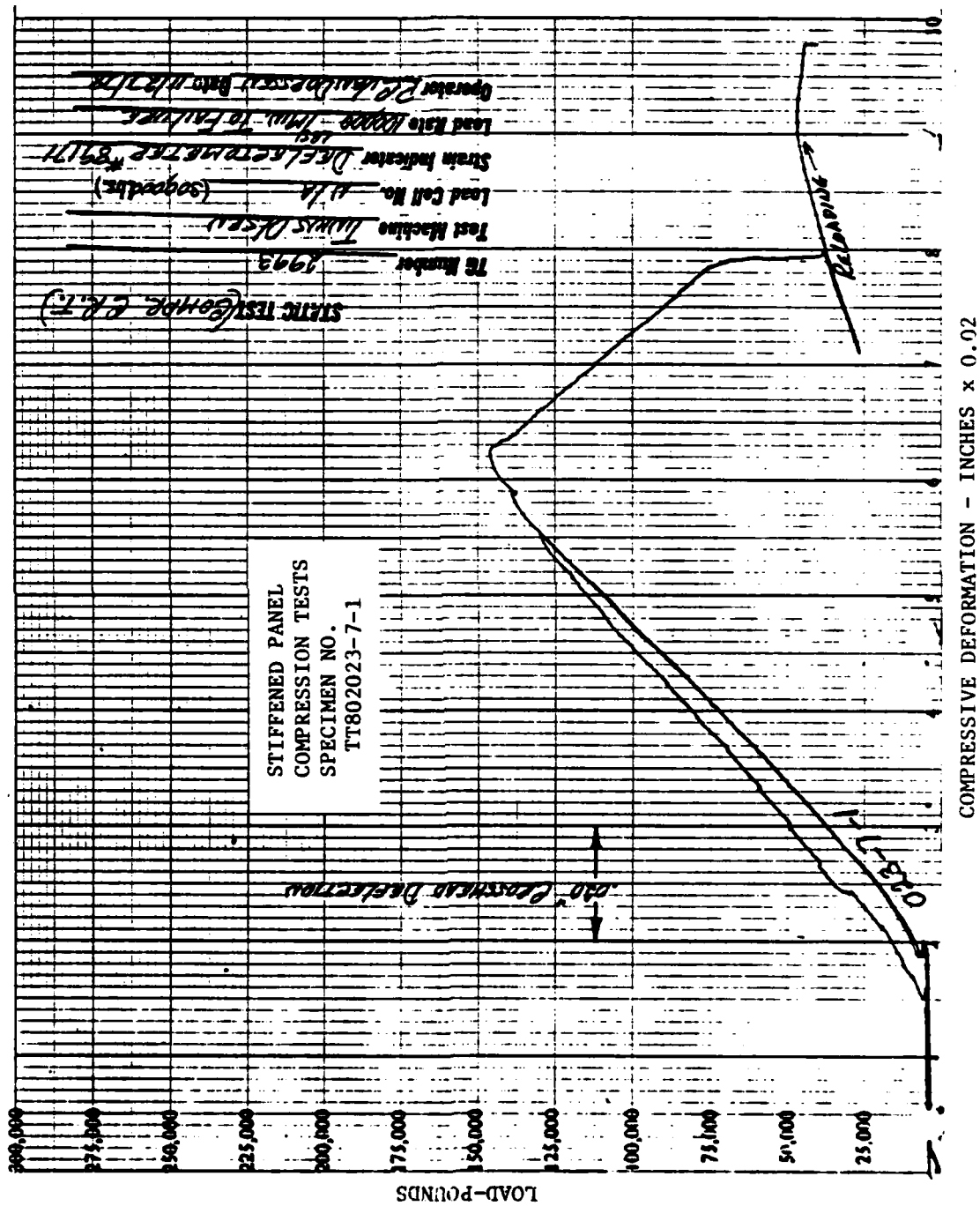
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150K

34-00918
33-00051
32-01335
31-00029
30-00700
29-01348
28-00589
27-15929
26-04125
25-03516
24-08471
23-04774
22-01159
21-04785
20-00230
19-00404
18-00114
17-00011
16-00115
15-00012
14-00096
13-00222
12-00483
11-00028
10-00001
09-00120
08-00189
07-00598
06-00054
05-01075
04-00954
03-00841
02-00967
01-01039
00-152250
99-112780

Post Buckling



PANEL TT802023-7-1

Test Start "0"
@ .5K

PANEL TT802023-7-1

[illegible]

34-00007
33-00065
32-0102
31-01070
30-00074
29-01522
28-02061
27-01149
26-01325
25-02522
24-01535
23-01360
22-01614
21-01315
20-00017
19-00004
18-00005
17-00001
16-00001
15-00001
14-00021
13-00021
12-00000
11-00001
10-00000
09-00000
08-00000
07-00000
06-00001
05-00030
04-00021
03-00036
02-00017
01-00017
01-00060
01-00060
100K

34-00990	33-00990	32-017A7	31-01192	30-01365	29-01A85	28-02A85	27-01106	26-01462	25-02A11	24-016A9	23-01511	22-01A35	21-01447	20-00016	19-00000	18-00000	17-00002	16-00003	15-00001	14-00001	13-0002A	12-00000	11-00001	10-00000	09-00010	08-00001	07-00009	06-00000	05-00035	04-00022	03-00040	02-00021	01-00017	0145470	0127780	110K

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01-00017
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01127760

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28-03969
27-00836
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08-00000
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06-00000
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04-00000
03-00000
02-00000
01-00000
0127760
130K

34+00094	33+00098	32+00245	31+00007	30+00025	29+00157	28+00658	27+00421	26+00096	25+00663	24+00064	23+00165	22+00306	21+00128	20+00000	19+00000	18+00000	17+00000	16+00000	15+00003	14+00001	13+00023	12+00001	11+00001	10+00000	09+00000	08+00004	07+00004	06+00000	05+00000	04+00005	03+00004	02+00014	01+00014	00+48210	1127780

34-01020
33-010A5
32-02248
31-01470
30-01231
29-02066
28-04052
27-00792
26-01755
25-03485
24-02038
23-01A661
22-02333
21-01703
20-04444
19-04000
18-00004
17-00004
16-04-07
15-00005
14-00004
13-00045
12-00002
11-00001
10-00000
09-00019
08-00000
07-00017
06-00004
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+1127780
130K

TER073

SHEET 4 of 4

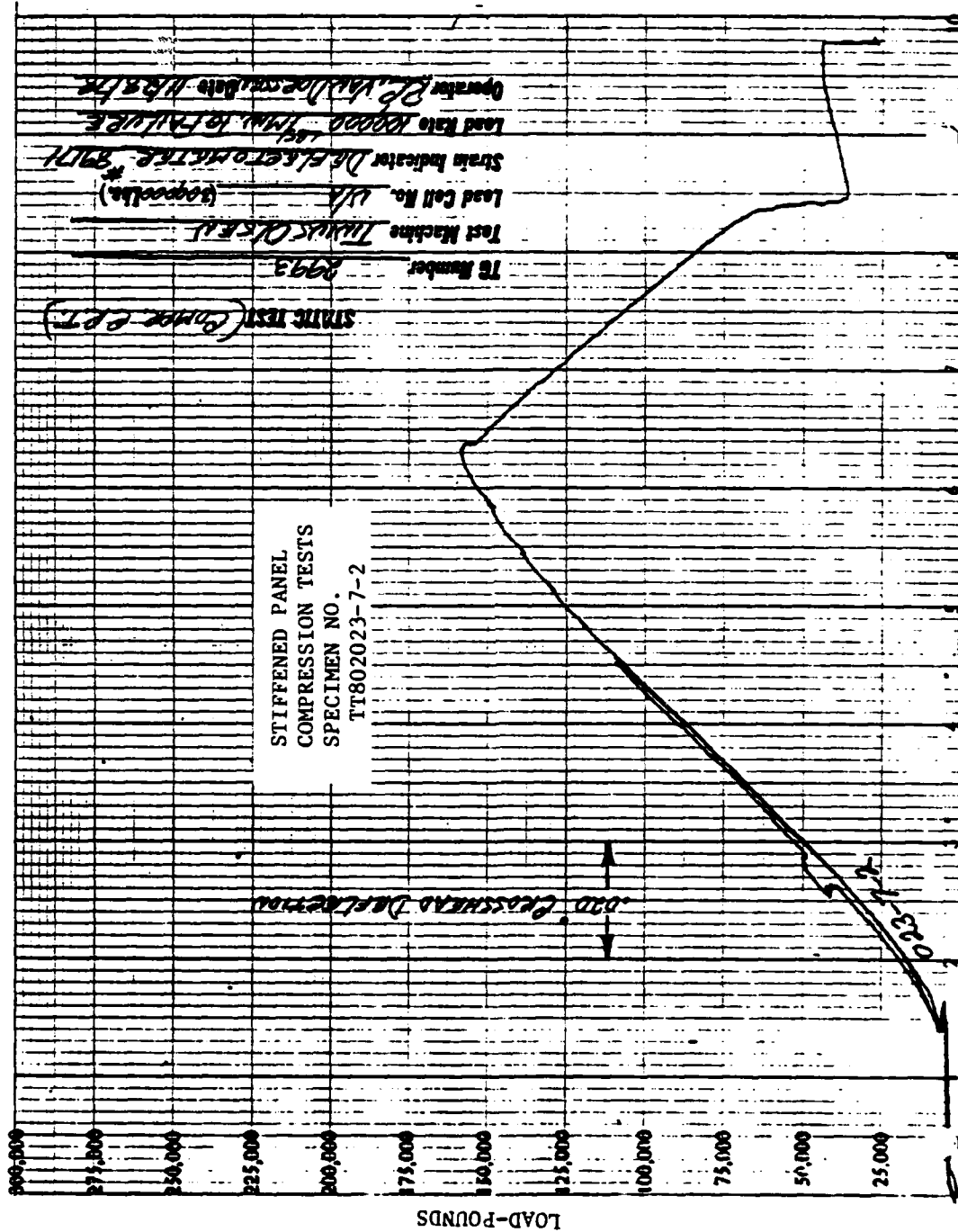
11/27/78

PANEL TT802023-7-1

34-01092	34+00144
33-01163	33+00048
32-02475	32+00371
31-01452	31+00076
30-01308	30+00094
29-02246	29+00280
28-04747	28+04067
27-00473	27+05361
26-01867	26+02678
25-03916	25+06085
24-02220	24+02617
23-02033	23+03407
22-02491	22+02402
21-01784	21+01844
20-00044	20+00004
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16-00000	16+00000
15-00005	15+00003
14-00012	14+00053
13-00060	13+00007
12+00001	12+00046
11-00001	11+00056
10+00000	10+00009
09+00027	09+00030
08+00006	08+00094
07+00018	07+00073
06+00005	06+00091
05+00065	05+00232
04+00037	04+00062
03+00061	03+01077
02+00030	02+00298
01+00023	01+00430
01450290	01453350
01127780	01127780

Post Buckling
@ 0

140K



SHEET 1 of 4

11/28/78

PANEL TT302023-7-2

34-00000
33-00000
32-00001
31-00001
30-00000
29-00000
28-00001
27-00001
26-00002
25-00001
24-00000
23-00001
22-00001
21-00001
01309070
01128780

Strain Gage
Zero Ref.

15-00000
14-00001
13-00001
12-00000
11-00000
10-00000
09-00000
08-00001
07-00001
06-00000
05-00001
04-00000
03-00000
02-00001
01-00001
01313050
01128780

DEFL. IND.
ZERO REF.
@ 5K

34-00003
33-00004
32-00004
31-00007
30-00006
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Test Start "0"
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10K

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20K

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30K

PANEL TT802023-7-2

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31-00504	31-00614	31-00724	31-00834	31-00944	31-01054	31-01164
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29-00674	29-00784	29-00894	29-01004	29-01114	29-01224	29-01334
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23-00701	23-00811	23-00921	23-01031	23-01141	23-01251	23-01361
22-00705	22-00815	22-00925	22-01035	22-01145	22-01255	22-01365
21-00693	21-00803	21-00913	21-01023	21-01133	21-01243	21-01353
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19-00603	19-00713	19-00823	19-00933	19-01043	19-01153	19-01263
18-00605	18-00715	18-00825	18-00935	18-01045	18-01155	18-01265
17-00603	17-00713	17-00823	17-00933	17-01043	17-01153	17-01263
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SHEET 3 of 4

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PANEL TT802023-7-2

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31-01036	31-00032	31-01134	31-01246	31-01345
30-01052	30-00032	30-01141	30-01239	30-01310
29-01542	29-00086	29-01720	29-01897	29-02102
28-01971	28-00030	28-02181	28-02418	28-02651
27-01679	27-00023	27-01831	27-01997	27-02135
26-01339	26-00060	26-01506	26-01666	26-01851
25-02303	25-00121	25-02664	25-03033	25-03473
24-01615	24-00057	24-01710	24-01827	24-01899
23-01319	23-00069	23-01544	23-01697	23-01867
22-01431	22-00031	22-01589	22-01742	22-01879
21-01430	21-00084	21-01604	21-01771	21-01967
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17-00003	17-00003	17-00003	17-00003	17-00003
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Perm. Set Check
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SHEET 4 of 4

11/28/78

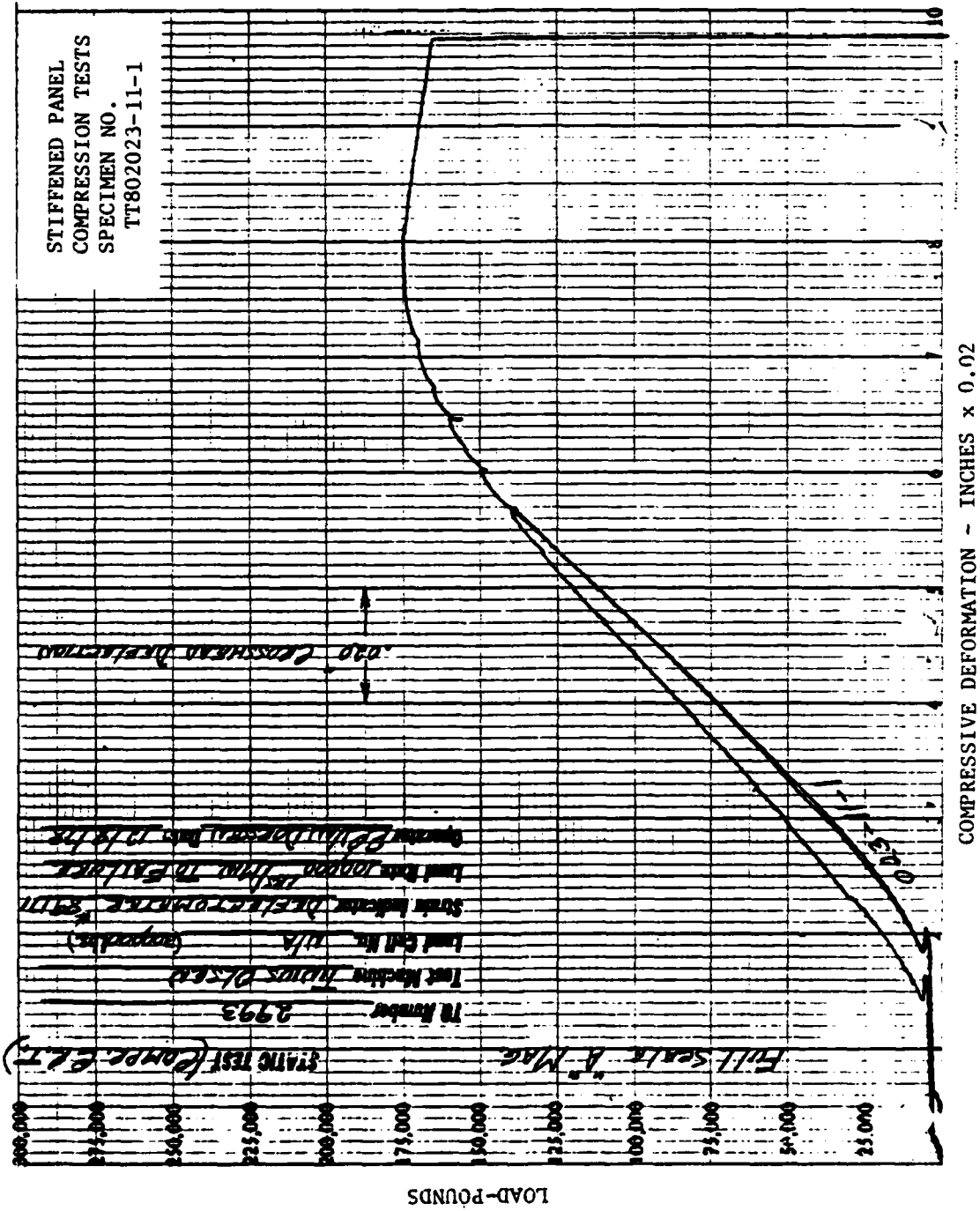
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23-02056	23-02286	23-05104
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21-02190	21-02486	21-02413
20-00035	20-00033	20-00059
19-00001	19-00004	19-00003
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17-00003	17-00004	17-00007
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15-00003	15-00004	15-00062
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01-00033	01-00038	01-00470
0133300	01333370	01337110
01128/81	01128/81	01128/80

Post Buckling
0

150K

140K



SHEET 1 of 5

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PANEL TT802023-11-1

Strain Gage Zero Ref.	Strain Gage R Cal	DEFL. IND. ZERO REF.	Test Start 0	10K	20K
2A-00003	2A-01414	2A-00049	2A-00002	2A-00119	2A-00274
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25-00003	25-01415	25-00042	25-00002	25-00116	25-00284
24-00000	24-01417	24-00037	24-00005	24-00107	24-00262
23-00000	23-01415	23-00053	23-00006	23-00127	23-00284
22-00003	22-01417	22-00052	22-00005	22-00122	22-00281
21-00003	21-01415	21-00048	21-00005	21-00114	21-00261
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14-00194	14-00043	14-00041	14-00040	14-00040	14-00040
13-00084	13-00041	13-00041	13-00042	13-00041	13-00041
12-00752	12-00034	12-00041	12-00040	12-00040	12-00041
11-00594	11-00045	11-00041	11-00041	11-00045	11-00046
10-00184	10-00045	10-00040	10-00040	10-00040	10-00040
09-00200	09-00044	09-00040	09-00040	09-00040	09-00040
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06-00080	06-00044	06-00041	06-00041	06-00041	06-00044
05-00111	05-00042	05-00041	05-00046	05-00041	05-00040
04-00105	04-00041	04-00040	04-00049	04-00040	04-00040
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02-00155	02-00043	02-00040	02-00040	02-00041	02-00040
01-00052	01-00040	01-00040	01-00040	01-00040	01-00045
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SHEET 2 of 5

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PANEL TT802023-11-1

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27-00383	27-00517	27-00649	27-00779	27-00914	27-0103A
26-0051A	26-00561	26-00707	26-00855	26-01014	26-01172
25-00430	25-00577	25-00725	25-00872	25-01023	25-01165
24-00395	24-00530	24-00665	24-00797	24-00932	24-01057
23-00430	23-00576	23-00722	23-00869	23-01025	23-01176
22-0042A	22-0057A	22-00729	22-00880	22-01046	22-0121A
21-00396	21-00534	21-00674	21-00814	21-00966	21-01112
20-00419	20-0051A	20-0061A	20-0071A	20-0081A	20-0091A
19-00408	19-00506	19-00604	19-00704	19-00804	19-00904
18-00413	18-00511	18-00611	18-00711	18-00811	18-00911
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50K

60K

70K

80K

SHEET 3 of 5

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24-01177
23-01334
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90K

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120K

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130K

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140K

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23-00343	23-02374	23-02804	23-02636	23-03259
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Perm. Set Check	140K	150K	160K	165K
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PANEL TT802023-11-1

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17-00010
16-00012
15-00006
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12-00073
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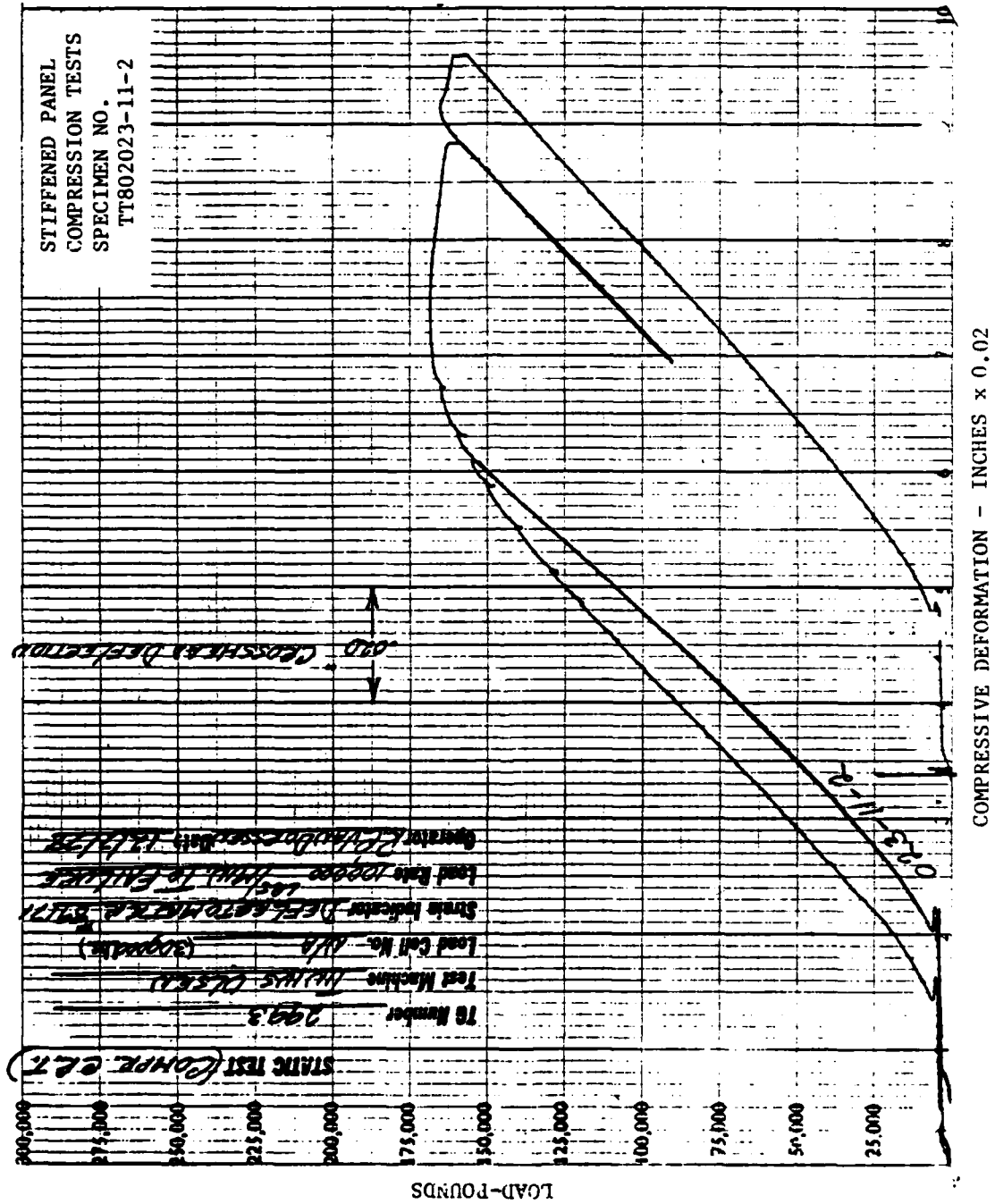
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17-00007
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15-00008
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13-00083
12-00045
11-00004
10-00018
09-00198
08-00061
07-00053
06-00031
05-00769
04-00556
03-00631
02-00574
01-00586
00216060
*1615780

Post Buckling
@ 140.6K

28-04851
27-12279
26-24487
25-11109
24-05030
23-23300
22-02523
21-01656
20-00034
19-00004
18-00010
17-00004
16-00012
15-00012
14-00166
13-00066
12-00063
11-00000
10-00023
09-00177
08-00036
07-00075
06-00013
05-00475
04-00556
03-00631
02-00573
01-00499
00217290
*1615780

Post Buckling
0



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PANEL TT802023-11-2

Strain Gage Zero Ref.	Strain Gage R Cal.	DEFL. IND. ZERO REF. @5K	Test Start 0	10K	20K
34-00001	34+01417	34-00026	34-00002	34-00074	34-00164
33-00001	33+01415	33-00026	33-00003	33-00062	33-00166
32-00002	32+01415	32-00014	32-00007	32-00026	32-00043
31-00002	31+01414	31-00036	31-00006	31-00066	31-00190
30-00001	30+01414	30-00040	30-00009	30-00109	30-00221
29-00003	29+01414	29-00012	29-00006	29-00025	29-00043
28-00003	28+01411	28-00022	28-00003	28-00074	28-00203
27-00002	27+01413	27-00021	27-00002	27-00066	27-00186
26-00003	26+01413	26-00062	26-00013	26-00138	26-00290
25-00000	25+01415	25-00081	25-00012	25-00186	25-00328
24-00001	24+01413	24-00067	24-00010	24-00157	24-00310
23-00002	23+01415	23-00056	23-00016	23-00130	23-00283
22-00004	22+01412	22-00052	22-00009	22-00125	22-00274
21-00003	21+01412	21-00052	21-00008	21-00124	21-00272
20-00017	20+00066	20-00068	20-00024	20-00027	20-00024
19-00006	19+00002	19-00007	19-00010	19-00006	19-00005
18-00010	18+00006	18-00010	18-00010	18+00010	18-00010
17-00009	17+00003	17-00004	17-00007	17+00010	17-00007
16-00004	16+00004	16-00011	16-00010	16+00010	16-00010
15-00193	15-00183	15-00000	15-00000	15-00000	15-00000
14-00098	14-00098	14-00001	14-00000	14-00000	14-00001
13-00161	13-00161	13-00000	13-00000	13-00000	13-00001
12-00125	12-00125	12-00000	12-00000	12-00000	12-00001
11-00195	11-00195	11-00000	11-00002	11-00001	11-00001
10-00193	10-00193	10-00000	10-00001	10-00001	10-00001
09-00224	09-00225	09-00001	09-00000	09-00001	09-00001
08-00164	08-00165	08-00000	08-00000	08-00000	08-00000
07-00176	07-00176	07-00000	07-00000	07-00000	07-00000
06-00060	06-00059	06-00000	06-00000	06-00001	06-00004
05-00109	05-00108	05-00000	05-00000	05-00004	05-00001
04-00095	04-00095	04-00000	04-00009	04-00000	04-00000
03-00156	03-00156	03-00000	03-00013	03-00001	03-00002
02-00188	02-00188	02-00000	02-00011	02-00002	02-00002
01-00216	01-00215	01-00001	01-00010	01-00002	01-00001
00305120	00305300	00305370	003051240	003051500	003052080
*1204780	*1204780	*1204780	*1204780	*1204780	*1204780

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PANEL TT802023-11-2

34-00253	34-00351	34-00448	34-00552	34-00650	34-00751
33-00265	33-00361	33-00454	33-00551	33-00641	33-00753
32-00057	32-00070	32-00082	32-00094	32-00105	32-00116
31-00271	31-00362	31-00449	31-00544	31-00632	31-00722
30-00320	30-00407	30-00494	30-00586	30-00673	30-00761
29-00057	29-00069	29-00079	29-00091	29-00101	29-00112
28-00341	28-00481	28-00619	28-00762	28-00892	28-01019
27-00314	27-00445	27-00574	27-00708	27-00833	27-00957
26-00435	26-00585	26-00732	26-00889	26-01040	26-01200
25-00530	25-00691	25-00847	25-01011	25-01164	25-01321
24-00444	24-00575	24-00699	24-00825	24-00939	24-01047
23-00429	23-00574	23-00719	23-00872	23-01024	23-01165
22-00418	22-00562	22-00703	22-00855	22-01013	22-01147
21-00416	21-00562	21-00706	21-00860	21-01015	21-01172
20-00424	20-00524	20-00624	20-00729	20-00828	20-00929
19-00406	19-00506	19-00606	19-00705	19-00806	19-00906
18-00406	18-00506	18-00606	18-00706	18-00806	18-00906
17-00406	17-00506	17-00606	17-00706	17-00806	17-00906
16-00406	16-00506	16-00606	16-00706	16-00806	16-00906
15-00000	15-00001	15-00000	15-00000	15-00001	15-00001
14-00004	14-00005	14-00005	14-00006	14-00005	14-00006
13-00001	13-00002	13-00002	13-00001	13-00004	13-00007
12-00003	12-00003	12-00002	12-00003	12-00003	12-00003
11-00002	11-00003	11-00002	11-00005	11-00006	11-00006
10-00000	10-00000	10-00000	10-00000	10-00001	10-00000
09-00001	09-00001	09-00000	09-00000	09-00000	09-00001
08-00000	08-00000	08-00000	08-00000	08-00000	08-00005
07-00000	07-00000	07-00000	07-00000	07-00000	07-00000
06-00003	06-00003	06-00004	06-00004	06-00003	06-00004
05-00000	05-00000	05-00000	05-00000	05-00000	05-00000
04-00000	04-00000	04-00000	04-00000	04-00000	04-00000
03-00003	03-00003	03-00004	03-00004	03-00005	03-00006
02-00001	02-00002	02-00002	02-00003	02-00002	02-00002
01-00001	01-00001	01-00001	01-00001	01-00001	01-00001
0032270	0032270	0032310	0032460	0032430	0032450
1204780	1204780	1204780	1204780	1204780	1204780
30K	40K	50K	60K	70K	80K

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PANEL TT802023-11-2

34-00855	34-01045	34-01142	34-01234	34-01336
33-00825	33-00981	33-01051	33-01111	33-01174
32-00128	32-00146	32-00157	32-00164	32-00172
31-00813	31-00490	31-01080	31-01164	31-01260
30-00652	30-01027	30-01108	30-01179	30-01244
29-00121	29-00146	29-00176	29-00215	29-00266
28-01139	28-01341	28-01414	28-01452	28-01490
27-01079	27-01309	27-01424	27-01531	27-01663
26-01367	26-01722	26-01933	26-02157	26-02444
25-01477	25-01774	25-01922	25-02065	25-02240
24-01144	24-01296	24-01339	24-01340	24-01274
23-01359	23-01727	23-01440	23-02164	23-02443
22-01376	22-01752	22-01454	22-02115	22-02228
21-01329	21-01661	21-01546	21-02036	21-02333
20-00623	20-00639	20-00639	20-00624	20-00636
19-00005	19-00005	19-00005	19-00006	19-00005
18-00010	18-00009	18-00009	18-00010	18-00009
17-00010	17-00010	17-00010	17-00010	17-00010
16-00010	16-00010	16-00010	16-00010	16-00010
15-00001	15-00001	15-00001	15-00001	15-00001
14-00009	14-00010	14-00015	14-00014	14-00018
13-00006	13-00011	13-00011	13-00014	13-00014
12-00007	12-00006	12-00008	12-00010	12-00010
11-00006	11-00006	11-00007	11-00008	11-00007
10-00000	10-00000	10-00000	10-00001	10-00001
09-00001	09-00005	09-00009	09-00009	09-00014
08-00010	08-00010	08-00014	08-00019	08-00024
07-00000	07-00000	07-00000	07-00000	07-00002
06-00003	06-00003	06-00005	06-00007	06-00008
05-00000	05-00000	05-00005	05-00009	05-00010
04-00004	04-00009	04-00014	04-00018	04-00027
03-00013	03-00018	03-00027	03-00036	03-00050
02-00007	02-00012	02-00016	02-00020	02-00029
01-00005	01-00006	01-00007	01-00010	01-00014
00375370	00376190	003772301	00328070	003233901
*1204780	*1204780	*1204780	*1204780	*1204780
90K	100K	110K	120K	130K
				140K

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PANEL TT802023-11-2

34-01430	34-00026	34-01493	34-01525	34-01551
33-01230	33-00043	33-01258	33-01287	33-01348
32-00178	32-00031	32-00173	32-00173	32-00173
31-01360	31-00039	31-01425	31-01474	31-01558
30-01268	30-00029	30-01296	30-01297	30-01264
29-00327	29-00030	29-00366	29-00397	29-00447
28-01266	28-00345	28-01051	28-00786	28-00068
27-01834	27-00129	27-01968	27-02121	27-02468
26-02627	26-03051	26-03101	26-03370	26-03944
25-02460	25-02601	25-02628	25-02806	25-03221
24-01046	24-00659	24-00373	24-00484	24-00290
23-02782	23-02979	23-00703	23-03278	23-03863
22-02196	22-02109	22-00837	22-01812	22-01089
21-02866	21-03240	21-00242	21-04148	21-06026
20-00030	20-00034	20-00036	20-00030	20-00030
19-00046	19-00005	19-00005	19-00005	19-00006
18-00009	18-00009	18-00009	18-00009	18-00009
17-00007	17-00007	17-00007	17-00007	17-00008
16-00006	16-00006	16-00006	16-00006	16-00006
15-00001	15-00001	15-00001	15-00001	15-00000
14-00027	14-00032	14-00035	14-00043	14-00063
13-00024	13-00033	13-00033	13-00042	13-00067
12-00012	12-00015	12-00003	12-00016	12-00021
11-00008	11-00007	11-00001	11-00006	11-00005
10-00000	10-00001	10-00001	10-00001	10-00000
09-00023	09-00032	09-00005	09-00045	09-00067
08-00033	08-00041	08-00010	08-00055	08-00082
07-00005	07-00005	07-00002	07-00009	07-00013
06-00008	06-00008	06-00001	06-00008	06-00009
05-00013	05-00013	05-00026	05-00018	05-00014
04-00036	04-00044	04-00031	04-00058	04-00075
03-00071	03-00089	03-00054	03-00117	03-00165
02-00036	02-00045	02-00034	02-00056	02-00073
01-00020	01-00020	01-00028	01-00021	01-00019
00329490	00329490	00330470	00333150	00333420
*1204760	*1204780	*1204780	*1204780	*1204780

Perm. Set Check / 155K

@ 0

155K

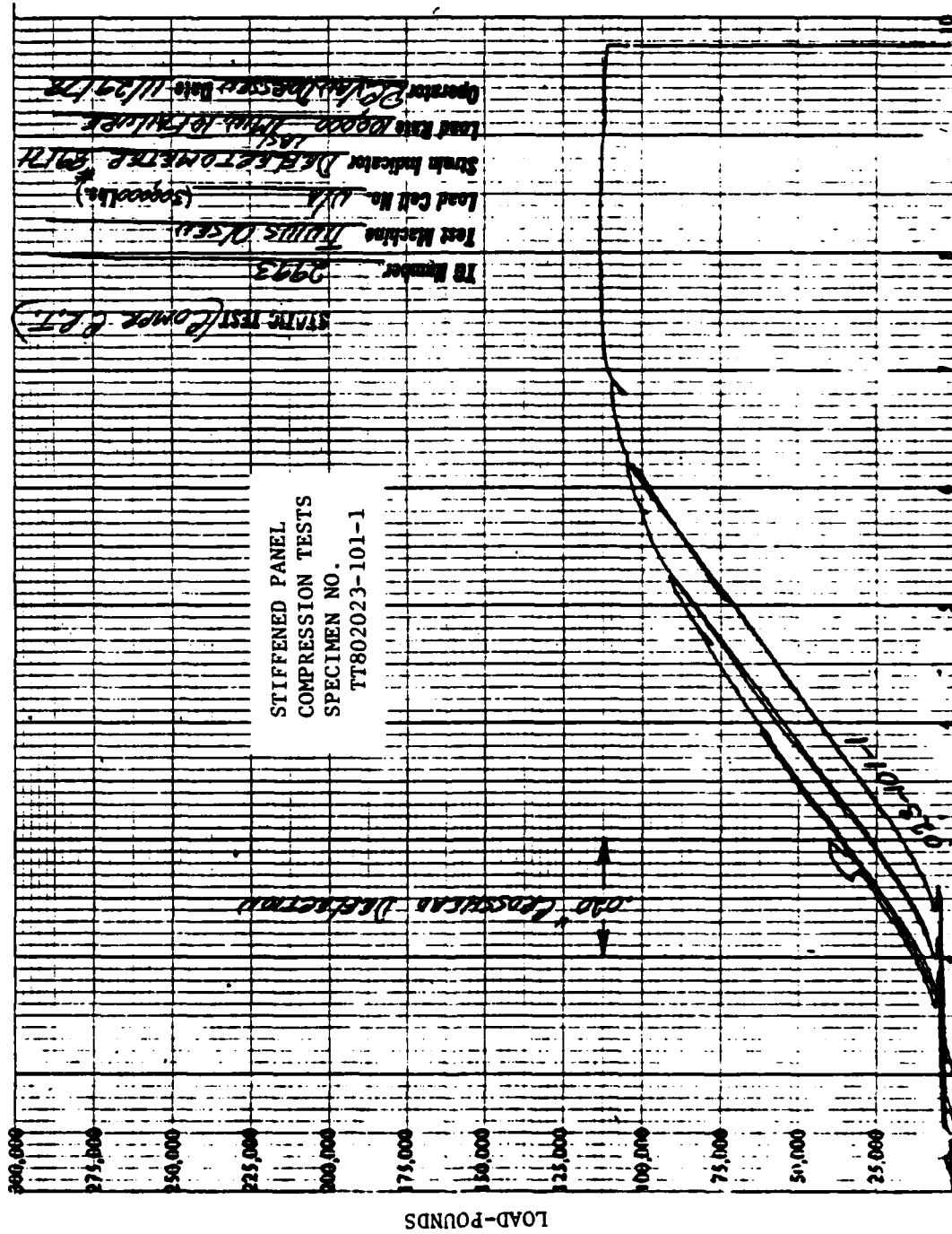
150K

160K

165K

PANEL TT802023-11-2 12/7/78

34-01449	34-01209	34-00105
33-01466	33-01545	33-00042
32-00140	32-00151	32-00116
31-01453	31-01664	31-00013
30-01052	30-00885	30-00103
29-00499	29-00517	29-00099
28-02570	28-06574	28-05240
27-03766	27-04264	27-0138A
26-06039	26-11988	26-08786
25-04399	25-04700	25-01629
24-02799	24-06592	24-05185
23-06039	23-11606	23-08673
22-02168	22-09385	22-08118
21-13324	21-74727	21-21925
20-00430	20-00029	20-00027
19-00006	19-00006	19-00006
18-00010	18-00010	18-00010
17-00007	17-00007	17-00007
16-00010	16-00010	16-00010
15-00001	15-00008	15-00000
14-00116	14-00167	14-00120
13-00135	13-00211	13-00144
12-00034	12-00052	12-00059
11-00000	11-00004	11-00001
10-00005	10-00010	10-00002
09-00125	09-00187	09-00130
08-00145	08-00217	08-00149
07-00031	07-00046	07-00059
06-00017	06-00026	06-00009
05-00022	05-00089	05-00075
04-00116	04-00222	04-00177
03-06274	03-00497	03-00421
02-00116	02-00216	02-00181
01-00003	01-00040	01-00031
00-310001	00-335450	00-339360
01204780	01204780	01615780
169K	Post Buckling	Post Buckling
MAXIMUM	165.5K	0
LOAD		



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PANEL TT802023-101-1

34-00001	15-00000	34-00005	34-00234	34-00478	34-00722
33-00000	14-00001	33-00002	33-00047	33-00064	33-00119
32-00000	13-00001	32-00006	32-00109	32-00304	32-00501
31-00000	12-00000	31-00012	31-00053	31-00120	31-00185
30-00001	11-00000	30-00011	30-00094	30-00244	30-00797
29-00001	10-00000	29-00005	29-00128	29-00315	29-00490
28-00001	09-00001	28-00001	28-00092	28-00203	28-00305
27-00000	08-00001	27-00001	27-00112	27-00252	27-00384
26-00002	07-00001	26-00018	26-00215	26-00470	26-00730
25-00001	06-00000	25-00005	25-00111	25-00256	25-00387
24-00001	05-00000	24-00004	24-00080	24-00180	24-00263
23-00002	04-00000	23-00007	23-00203	23-00457	23-00714
22-00001	03-00000	22-00000	22-00017	22-00019	22-00002
21-00000	02-00000	21-00011	21-00252	21-00576	21-00925
01530550	01-00000	~~20-00034~~	~~20-00034~~	~~20-00034~~	~~20-00034~~
*1129780	01540060	~~19-00001~~	~~19-00001~~	~~19-00001~~	~~19-00001~~
Strain Gage	*1129780	~~18-00004~~	~~18-00004~~	~~18-00004~~	~~18-00004~~
Zero Ref.	DEFL. IND.	~~17-00003~~	~~17-00003~~	~~17-00003~~	~~17-00003~~
	ZERO REF.	~~16-00002~~	~~16-00002~~	~~16-00002~~	~~16-00002~~
	@5K	15-00000	15-00000	15-00000	15-00000
		14-00001	14-00000	14-00000	14-00004
		13-00000	13-00000	13-00005	13-00009
		12-00000	12-00001	12-00001	12-00005
		11-00001	11-00000	11-00000	11-00000
		10-00000	10-00000	10-00001	10-00000
		09-00001	09-00000	09-00001	09-00000
		08-00001	08-00001	08-00004	08-00003
		07-00000	07-00000	07-00000	07-00000
		06-00000	06-00000	06-00000	06-00000
		05-00004	05-00000	05-00000	05-00000
		04-00010	04-00000	04-00000	04-00002
		03-00009	03-00001	03-00000	03-00000
		02-00009	02-00000	02-00000	02-00001
		01-00009	01-00001	01-00003	01-00002
		01540460	01543210	01544170	01546150
		*1129780	*1129780	*1129780	*1129780
		Test Start "0"			
		@ .5K	10K	20K	30K

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PANEL TT802023-101-1

34-01237	34-01498	34-00030	34-01491	34-01793
33-00199	33-00226	33-00004	33-00226	33-00246
32-00866	32-01043	32-00013	32-01044	32-01226
31-00303	31-00315	31-00107	31-00305	31-00292
30-01350	30-01446	30-00033	30-01651	30-01499
29-00437	29-01011	29-00018	29-01024	29-01209
28-00477	28-00544	28-00054	28-00538	28-00598
27-00624	27-00710	27-00050	27-00697	27-00761
26-01309	26-01664	26-00171	26-01686	26-02089
25-00623	25-00715	25-00073	25-00706	25-00788
24-00389	24-00430	24-00081	24-00425	24-00454
23-01316	23-01667	23-00233	23-01687	23-02064
22-00207	22-00436	22-00329	22-00468	22-00725
21-01691	21-02158	21-00491	21-02192	21-02647
20-00037	20-00037	20-00037	20-00437	20-00437
19-00004	19-00004	19-00004	19-00004	19-00004
18-00004	18-00004	18-00004	18-00004	18-00004
17-00004	17-00004	17-00004	17-00004	17-00004
16-00004	16-00004	16-00004	16-00004	16-00004
15-00001	15-00001	15-00001	15-00001	15-00001
14-00014	14-00014	14-00000	14-00012	14-00014
13-00014	13-00014	13-00000	13-00014	13-00014
12-00007	12-00007	12-00002	12-00007	12-00007
11-00001	11-00001	11-00000	11-00000	11-00001
10-00008	10-00008	10-00005	10-00009	10-00012
09-00005	09-00005	09-00004	09-00001	09-00001
08-00003	08-00003	08-00001	08-00004	08-00003
07-00003	07-00003	07-00004	07-00008	07-00013
06-00004	06-00004	06-00002	06-00005	06-00006
05-00004	05-00004	05-00009	05-00004	05-00013
04-00014	04-00014	04-00009	04-00014	04-00018
03-00004	03-00004	03-00000	03-00005	03-00014
02-00008	02-00008	02-00009	02-00012	02-00017
01-00000	01-00000	01-00009	01-00004	01-00013
0155330	0155330	01557180	01601550	01603530
01129780	01129780	01129780	01129780	01129780

Perm Set Check
@ .5K

60K

50K

40K

70K

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PANEL TT802023-101-1

34-02162	34-00414	34-02490	34-02778	34-02816
33-00173	33-00311	33-00095	33-00028	33-00009
32-01418	32-00084	32-01662	32-01894	32-02080
31-00223	31-00524	31-00166	31-00094	31-00016
30-02672	30-01065	30-03270	30-03673	30-04128
29-01408	29-00060	29-01673	29-01917	29-02159
28-00596	28-00240	28-00549	28-00411	28-00215
27-00742	27-00255	27-00672	27-00501	27-00281
26-02642	26-03218	26-03347	26-04262	26-05146
25-00600	25-00242	25-00795	25-00728	25-00618
24-00416	24-00265	24-00341	24-00175	24-00032
23-02528	23-00725	23-03103	23-03610	23-04449
22-01043	22-01277	22-01329	22-01635	22-01874
21-02950	21-00979	21-03128	21-03209	21-03220
20-00037	20-00039	20-00637	20-00034	20-00041
19-00004	19-00006	19-00637	19-00006	19-00009
18-00004	18-00006	18-00606	18-00005	18-00005
17-00003	17-00006	17-00606	17-00003	17-00002
16-00004	16-00006	16-00606	16-00006	16-00005
15-00001	15-00006	15-00603	15-00012	15-00021
14-00013	14-00014	14-00005	14-00000	14-00018
13-00008	13-00001	13-00001	13-00008	13-00012
12-00002	12-00002	12-00000	12-00006	12-00016
11-00000	11-00000	11-00000	11-00000	11-00006
10-00017	10-00017	10-00026	10-00034	10-00048
09-00003	09-00006	09-00012	09-00026	09-00048
08-00006	08-00006	08-00009	08-00015	08-00018
07-00018	07-00021	07-00021	07-00021	07-00017
06-00008	06-00006	06-00009	06-00008	06-00009
05-00031	05-00044	05-00049	05-00060	05-00110
04-00027	04-00022	04-00040	04-00054	04-00067
03-00019	03-00022	03-00022	03-00022	03-00018
02-00027	02-00034	02-00022	02-00053	02-00067
01-00027	01-00036	01-00040	01-00062	01-00077
01005420	01008090	01012060	01013080	01013530
*1129780	*112978C	*1129780	*112978C	*1129780
80K	90K	90K	100K	105K
		Perm. Set Check @ .5K		

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PANEL TT802023-101-1

34-00017	34-02773	34-00960	34-00209
33-00781	33-00012	33-01202	33-00485
32-00253	32-02121	32-00496	32-02581
31-01165	31-00040	31-01861	31-01190
30-02146	30-04175	30-02941	30-01649
29-00301	29-02204	29-01440	29-03160
28-00543	28-00127	28-01467	28-01477
27-00571	27-00228	27-03871	27-03859
26-02103	26-05268	26-05716	26-05716
25-00448	25-00589	25-01984	25-01976
24-00523	24-00078	24-02697	24-02723
23-01550	23-04542	23-06190	23-06186
22-01097	22-01911	22-04065	22-04620
21-01076	21-03200	21-02294	21-02701
20-00040	20-00041	20-00055	20-00055
19-00000	19-00001	19-00061	19-00061
18-00005	18-00006	18-00084	18-00084
17-00003	17-00004	17-00001	17-00001
16-00006	16-00006	16-00006	16-00006
15-00004	15-00022	15-00146	15-00146
14-00015	14-00022	14-00384	14-00581
13-00013	13-00013	13-00520	13-00020
12-00002	12-00020	12-00264	12-00283
11-00005	11-00010	11-00063	11-00060
10-00024	10-00046	10-00164	10-00230
09-00026	09-00053	09-00495	09-00716
08-00014	08-00023	08-00564	08-00720
07-00006	07-00014	07-00248	07-00304
06-00004	06-00009	06-00075	06-00109
05-00057	05-00114	05-00499	05-00500
04-00040	04-00071	04-00516	04-00516
03-00005	03-00014	03-00481	03-00481
02-00040	02-00071	02-00495	02-00494
01-00058	01-00085	01-00453	01-00453
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Perm. Set Check
@ .5K

105K

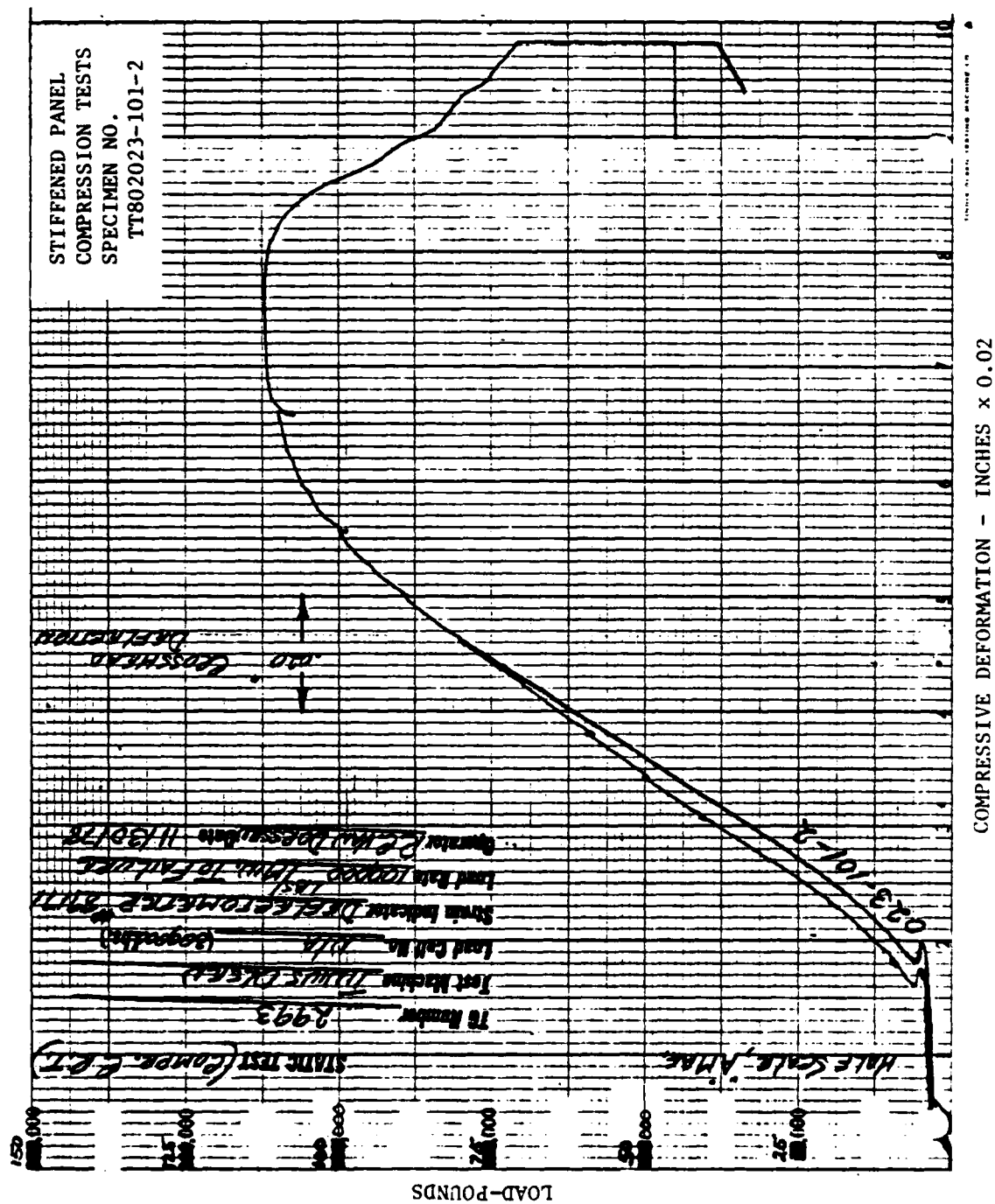
110K

115K

Perm. Set Check
@ .5K

71K

POST-BUCKLING
MAX. LOAD



SHEET 1 of 4

11/30/78

PANEL TT802023-101-2

34-00000
33-00001
32-00001
31-00000
30-00000
29-00002
28-00001
27-00000
26-00001
25-00000
24-00001
23-00000
22-00000
21-00002
01124370
01130780

Strain Gage
Zero Ref.

15-00001
14-00000
13-00000
12-00001
11-00001
10-00001
09-00000
08-00000
07-00000
06-00000
05-00000
04-00001
03-00000
02-00001
01-00000
01128170
01130780

DEFL. IND.
ZERO REF.

@5K

34+014181
33+014181
32+014181
31+01420
30+01417
29+01413
28+01415
27+01416
26+01415
25+01415
24+01414
23+01414
22+01417
21+01415
01124480
01130780

Strain Gage
R Cal

34+00007
33+00002
32+00006
31+00002
30+00005
29+00010
28+00002
27+00002
26+00007
25+00001
24+00001
23+00013
22+00002
21+00014
20+00040
19+00064
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17+00063
16+00066
15+00000
14+00001
13+00000
12+00001
11+00000
10+00001
09+00000
08+00000
07+00001
06+00000
05+00010
04+00009
03+00004
02+00011
01+00009
01124420
01130780

Test Start "0"
@ .5K

34-00144
33-00071
32-00118
31-00079
30-00181
29-00142
28-00092
27-00124
26-00170
25-00110
24-00110
23-00201
22-00023
21-00256
20-00042
19+00064
18+00065
17+00063
16+00066
15+00000
14+00000
13+00000
12+00001
11+00000
10+00001
09+00000
08+00000
07+00001
06+00002
05+00001
04+00000
03+00000
02+00001
01+00000
01129450
01130780

10K

34+00331
33+00146
32+00316
31+00187
30+00446
29+00341
28+00215
27+00296
26+00412
25+00277
24+00271
23+00467
22+00042
21+00603
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11+00000
10+00001
09+00000
08+00001
07+00001
06+00004
05+00001
04+00000
03+00004
02+00000
01+00001
01130170
01130780

20K

34+00514
33+00217
32+00484
31+00276
30+00484
29+00510
28+00320
27+00454
26+00643
25+00417
24+00401
23+00704
22+00041
21+00926
20+00441
19+00066
18+00065
17+00062
16+00066
15+00000
14+00000
13+00000
12+00003
11+00000
10+00001
09+00000
08+00003
07+00002
06+00004
05+00001
04+00000
03+00004
02+00001
01+00005
01130540
01130780

30K

SHEET 2 of 4

11/30/78

PANEL TT802023-101-2

34-00721	34-00950	34-01151	34-01399	34-01651	34-00055
33-00293	33-00377	33-00438	33-00492	33-00513	33-00051
32-00452	32-00413	32-00460	32-01142	32-01322	32-00047
31-00360	31-00430	31-00491	31-00545	31-00561	31-00029
30-00426	30-01176	30-01410	30-01718	30-02037	30-00045
29-00483	29-00464	29-01023	29-01210	29-01392	29-00047
28-00412	28-00485	28-00517	28-00518	28-00459	28-00159
27-00621	27-00794	27-00938	27-01109	27-01245	27-00092
26-00405	26-01200	26-01488	26-01842	26-02207	26-00333
25-00351	25-00475	25-00771	25-00866	25-00921	25-00129
24-00520	24-00619	24-00688	24-00740	24-00738	24-00142
23-00361	23-01254	23-01564	23-01976	23-02424	23-00433
22-00611	22-00102	22-00294	22-00573	22-00601	22-00495
21-01327	21-01873	21-02503	21-03241	21-03A66	21-01497
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19-00400	19-00400	19-00400	19-00400	19-00400	19-00400
18-00404	18-00404	18-00404	18-00404	18-00404	18-00404
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12-00005	12-00011	12-00017	12-00025	12-00037	12-00002
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07-00006	07-00006	07-00010	07-00016	07-00027	07-00004
06-00005	06-00005	06-00009	06-00009	06-00013	06-00004
05-00001	05-00001	05-00000	05-00005	05-00012	05-00018
04-00004	04-00004	04-00005	04-00009	04-00017	04-00016
03-00005	03-00005	03-00004	03-00005	03-00005	03-00009
02-00002	02-00002	02-00003	02-00008	02-00012	02-00016
01-00009	01-00009	01-00014	01-00023	01-00037	01-00014
0113340	0113340	0113400	0113529	0113629	0113751
0113078	0113078	0113078	0113078	0113078	0113078
40K	50K	60K	70K	80K	Perm. Set Check @ .5K

SHEET 3 of 4

11/30/78

PANEL TT802023-101-2

34-01487	34-01905	34-02287	34-02490	34-02748
33-00405	33-00495	33-00434	33-00169	33-00441
32-01328	32-01521	32-01942	32-02200	32-01365
31-00565	31-00524	31-00393	31-00026	31-01184
30-02051	30-02497	30-04002	30-05004	30-06231
29-01394	29-01572	29-01793	29-01905	29-01175
28-00449	28-00307	28-00670	28-00456	28-01451
27-01236	27-01367	27-01514	27-01633	27-01971
26-02223	26-02450	26-03316	26-03842	26-04975
25-00414	25-00645	25-00922	25-00917	25-01027
24-00732	24-00656	24-00327	24-00663	24-01144
23-02460	23-02598	23-03415	23-04443	23-05767
22-00420	22-01235	22-01457	22-01974	22-02339
21-03909	21-04267	21-04542	21-04697	21-03219
20-00443	20-00444	20-00444	20-00444	20-00444
19-00601	19-00604	19-00600	19-00600	19-00600
18-00006	18-00004	18-00005	18-00005	18-00002
17-00003	17-00003	17-00007	17-00007	17-00004
16-00006	16-00005	16-00005	16-00004	16-00004
15-00006	15-00005	15-00010	15-00009	15-00004
14-00013	14-00022	14-00034	14-00047	14-00233
13-00001	13-00000	13-00004	13-00009	13-00031
12-00038	12-00055	12-00094	12-00141	12-01105
11-00009	11-00013	11-00022	11-00032	11-00177
10-00003	10-00003	10-00022	10-00005	10-00004
09-00004	09-00022	09-00040	09-00062	09-00280
08-00014	08-00023	08-00040	08-00053	08-00108
07-00028	07-00045	07-00093	07-00143	07-00954
06-00013	06-00017	06-00024	06-00039	06-00179
05-00013	05-00018	05-00031	05-00036	05-00623
04-00018	04-00022	04-00035	04-00040	04-00619
03-00004	03-00005	03-00000	03-00004	03-00448
02-00015	02-00024	02-00034	02-00043	02-00613
01-00037	01-00054	01-00082	01-00105	01-00537
01139070	01139190	01140470	01142000	01142560
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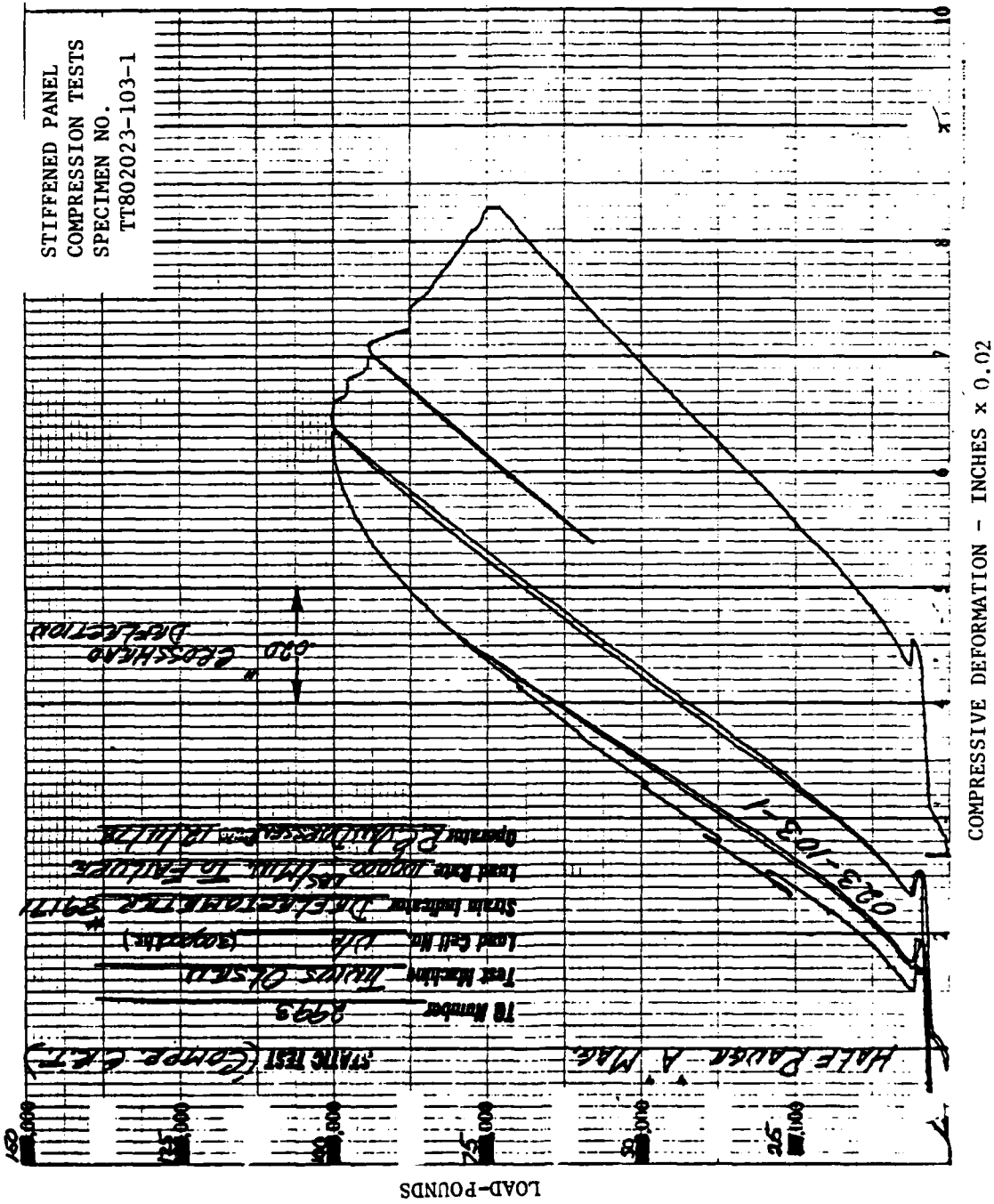
SHEET 4 of 4

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PANEL TT802023-101-2

34-02550
33-00729
32-01120
31-01261
30-05993
29-00930
28-01729
27-00000
26-05317
25-16215
24-01643
23-06075
22-01746
21-02598
20-00000
19-00005
18-00010
17-00003
16-00010
15-00001
14-00210
13-00033
12-01153
11-00190
10-00005
09-00266
08-00143
07-00058
06-00196
05-00095
04-00081
03-00071
02-00076
01-00041
0114090
01130780

Post Buckling
@ 52.5K



SHEET 1 of 4

12/11/78

PANEL TT802023-103-1

34-00002	34-01417	34-00003	34-00070	34-00175	34-00349
33-00001	33-01420	33-00004	33-00082	33-00211	33-00447
32-00000	32-01419	32-00001	32-00063	32-00142	32-00297
31-00002	31-01416	31-00002	31-00007	31-00010	31-00011
30-00001	30-01417	30-00003	30-00070	30-00189	30-00417
29-00001	29-01418	29-00002	29-00040	29-00122	29-00404
28-00002	28-01417	28-00003	28-00074	28-00169	28-00403
27-00001	27-01418	27-00001	27-00052	27-00135	27-00280
26-00002	26-01416	26-00003	26-00063	26-00149	26-00316
25-00000	25-01416	25-00001	25-00032	25-00088	25-00201
24-00003	24-01416	24-00003	24-00063	24-00168	24-00351
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015370901	015370901	015370901	015370901	015370901	015370901
012117801	012117801	012117801	012117801	012117801	012117801

Strain Gage
Zero Ref.Strain Gage
R CalTest Start
0DEFL. IND.
ZERO REF.

Repeat 0

20K

@5K

SHEET 2 of 4	
34-00520	34-00982
33-00440	33-01183
32-00447	32-00970
31-00014	31-00176
30-00651	30-01367
29-00484	29-01179
28-00617	28-01424
27-00414	27-00428
26-00486	26-01233
25-00311	25-00576
24-00627	24-01401
23-00565	23-01365
22-00477	22-00781
21-00530	21-00932
20-00609	20-00004
19-00010	19-00010
18-00014	18-00015
17-00012	17-00012
16-00014	16-00015
15-00000	15-00003
14-00013	14-00052
13-00033	13-00077
12-00032	12-00075
11-00017	11-00035
10-00009	10-00021
09-00022	09-00053
08-00031	08-00075
07-00011	07-00034
06-00009	06-00013
05-00022	05-00037
04-00006	04-00005
03-00021	03-00035
02-00013	02-00017
01-00016	01-00029
0155600	015562101
*1211780	*12117801
30K	50K
34-00487	34-00954
33-00784	33-01062
32-00586	32-00848
31-00330	31-00055
30-00884	30-01102
29-00663	29-00834
28-00641	28-01078
27-00543	27-00661
26-00660	26-00842
25-00412	25-00500
24-00882	24-01158
23-00754	23-00945
22-00427	22-00781
21-00730	21-00932
20-00004	20-00004
19-00010	19-00010
18-00014	18-00015
17-00012	17-00012
16-00014	16-00015
15-00000	15-00003
14-00020	14-00052
13-00051	13-00077
12-00052	12-00075
11-00026	11-00035
10-00014	10-00021
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07-00020	07-00034
06-00013	06-00014
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03-00035	03-00058
02-00017	02-00031
01-00029	01-00039
015562101	015567250
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33-00784	33-01183
32-00586	32-00970
31-00330	31-00176
30-00884	30-01367
29-00663	29-01179
28-00641	28-01424
27-00543	27-00428
26-00660	26-01233
25-00412	25-00576
24-00882	24-01401
23-00754	23-01365
22-00427	22-00781
21-00730	21-00932
20-00004	20-00004
19-00010	19-00010
18-00014	18-00015
17-00012	17-00012
16-00014	16-00015
15-00000	15-00003
14-00020	14-00052
13-00051	13-00077
12-00052	12-00075
11-00026	11-00035
10-00014	10-00021
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70K	Perm. Set Check @ 0

SHEET 3 of 4

12/11/78

PANEL TT802023-103-1

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32-01110	32-0004A	32-01095	32-01172	32-0125A	32-01311
31-00184	31-00220	31-00167	31-00169	31-00006	31-00370
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29-01389	29-00054	29-01401	29-01515	29-01677	29-01A5A
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27-00A63	27-00050	27-00A5A	27-00659	27-00833	27-00774
26-0143A	26-00100	26-01437	26-01453	26-01696	26-01A52
25-00535	25-00033	25-00530	25-00471	25-00365	25-00193
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16-00016	16-00016	16-00014	16-00014	16-00018	16-00018
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13-00250	13-00024	13-00255	13-00303	13-00373	13-00459
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09-00181	09-0001A	09-00181	09-00229	09-00287	09-00362
0A-0024A	0A-00009	0A-00027	0A-00296	0A-00363	0A-00452
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0A-00022	06-00011	06-00031	06-00031	06-00035	06-00036
05-00173	05-00027	05-00181	05-00217	05-00262	05-00322
0A-0006A	0A-00008	0A-00062	0A-00080	0A-00106	0A-00141
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02-00093	02-00000	02-00093	02-00112	02-00142	02-00186
01-00142	01-00016	01-00144	01-00174	01-00215	01-00269
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Perm. Set Check
@ 0

80K

80K

85K

90K

95K

SHEET 4 of 4

12/12/78

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32-01335
31-01705
30-02362
29-02186
28-02796
27-00748
26-02125
25-00230
24-03298
23-02429
22-00402
21-02002
20-00619
19-00009
18-00018
17-00012
16-00014
15-00068
14-00473
13-00421
12-00495
11-00172
10-00171
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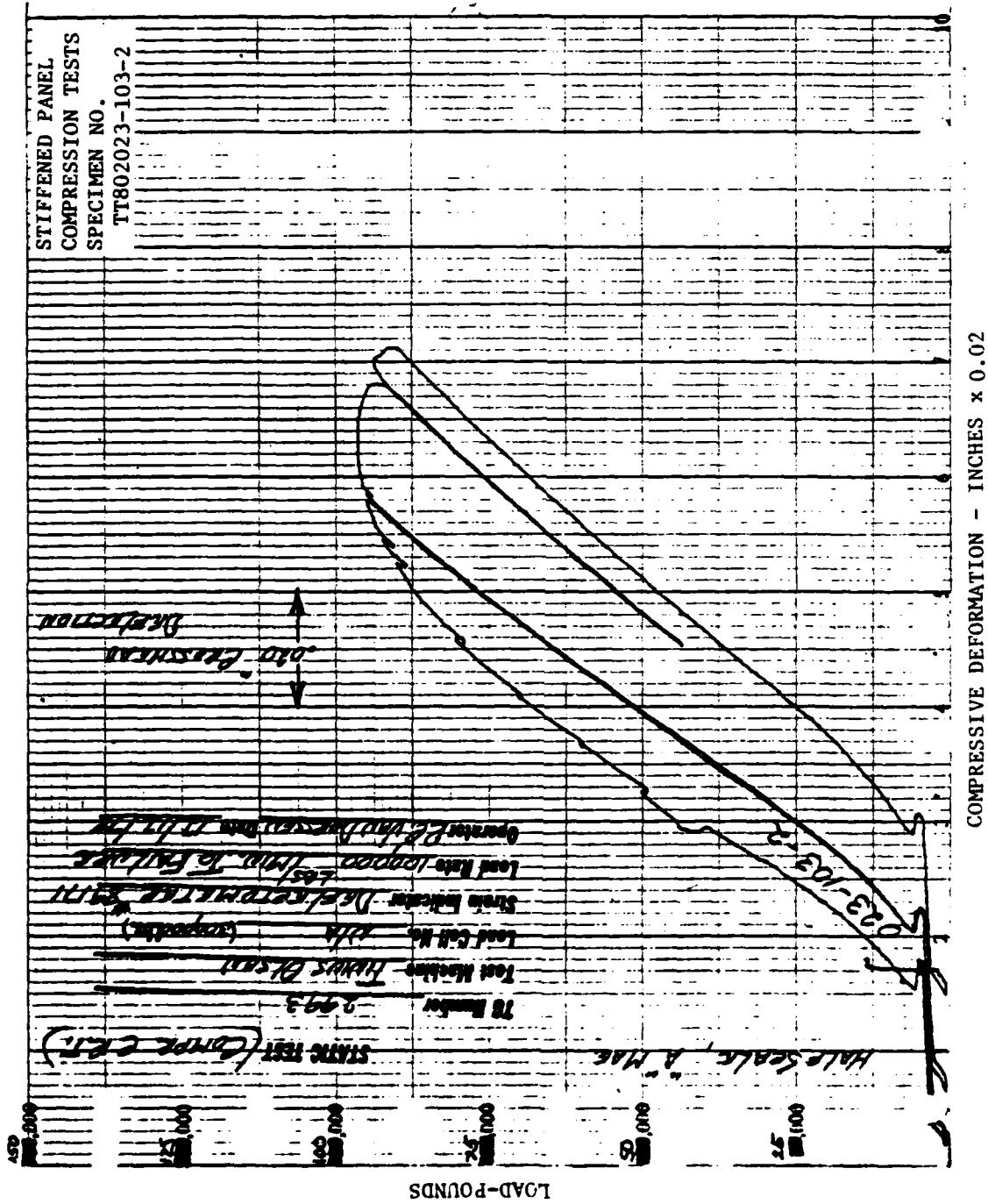
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Perm. Set Check
@ 0

100K

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32-00490
31-06942
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29-01938
28-01960
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26-02112
25-00058
24-03196
23-02382
22-00134
21-01683
20-00020
19-00009
18-00014
17-00011
16-00014
15-00158
14-00721
13-00087
12-00526
11-00188
10-00286
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100.5K



@5K

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PANEL TT802023-103-2

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26-00495	26-00469	26-01031	26-01462
25-00387	25-00511	25-00719	25-00771
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23-00563	23-00750	23-00943	23-01610
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17-00014	17-00667	17-00014	17-00014
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*1211780	*1211760	*1211780	*1211780
30K	40K	50K	80K

PANEL TT802023-103-2		12/12/78	PAGE 3 of 4
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27-00389	27-00128	27-00079	27-00026
26-01711	26-00244	26-01979	26-01895
25-00630	25-00092	25-00225	25-00283
24-02581	24-02904	24-02924	24-02507
23-01903	23-00292	23-02117	23-02307
22-00779	22-00737	22-00726	22-00414
21-02317	21-01028	21-01764	21-01432
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13-00394	13-00093	13-00527	13-00735
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90K	95K	96.5K	Post Buckling @ 93.6K
	Perm. Set Check @ 0	FAILURE LOAD	

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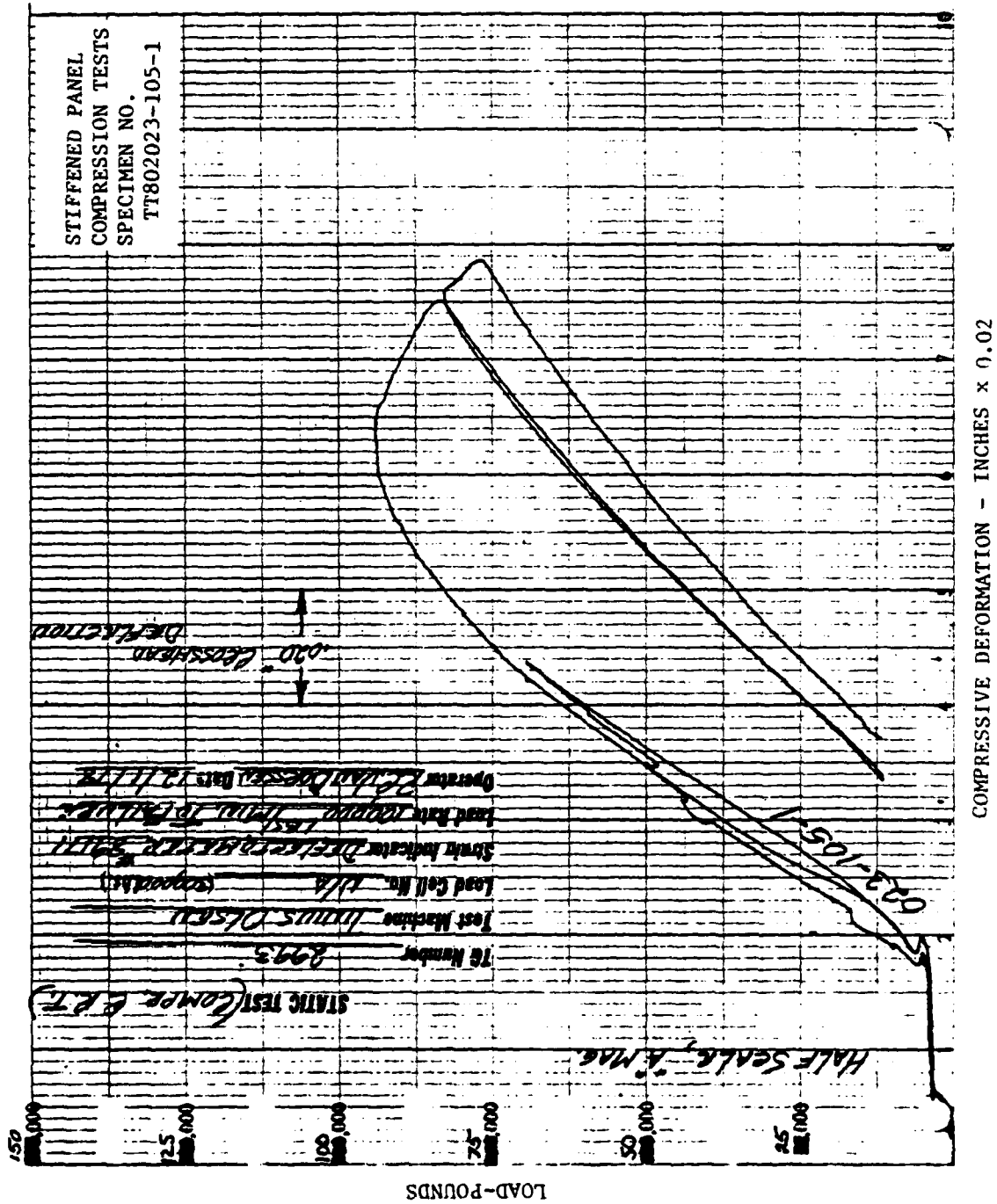
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Post Buckling
@ 0



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PANEL TT802023-105-1

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Strain Gage	*1201780	18-00007	18-00406	18-00905
Zero Ref.	DEFL. IND.	17-00007	17-00406	17-00905
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		10-00001	10-00001	10-00901
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		06-00001	06-00005	06-00908
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		*1201780	*1201780	*1201780
Strain Gage	Test Start "0"	10K	20K	30K
R Cal	@ .5K			

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PANEL TT802023-105-1

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Perm. Set Check
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70K

60K

50K

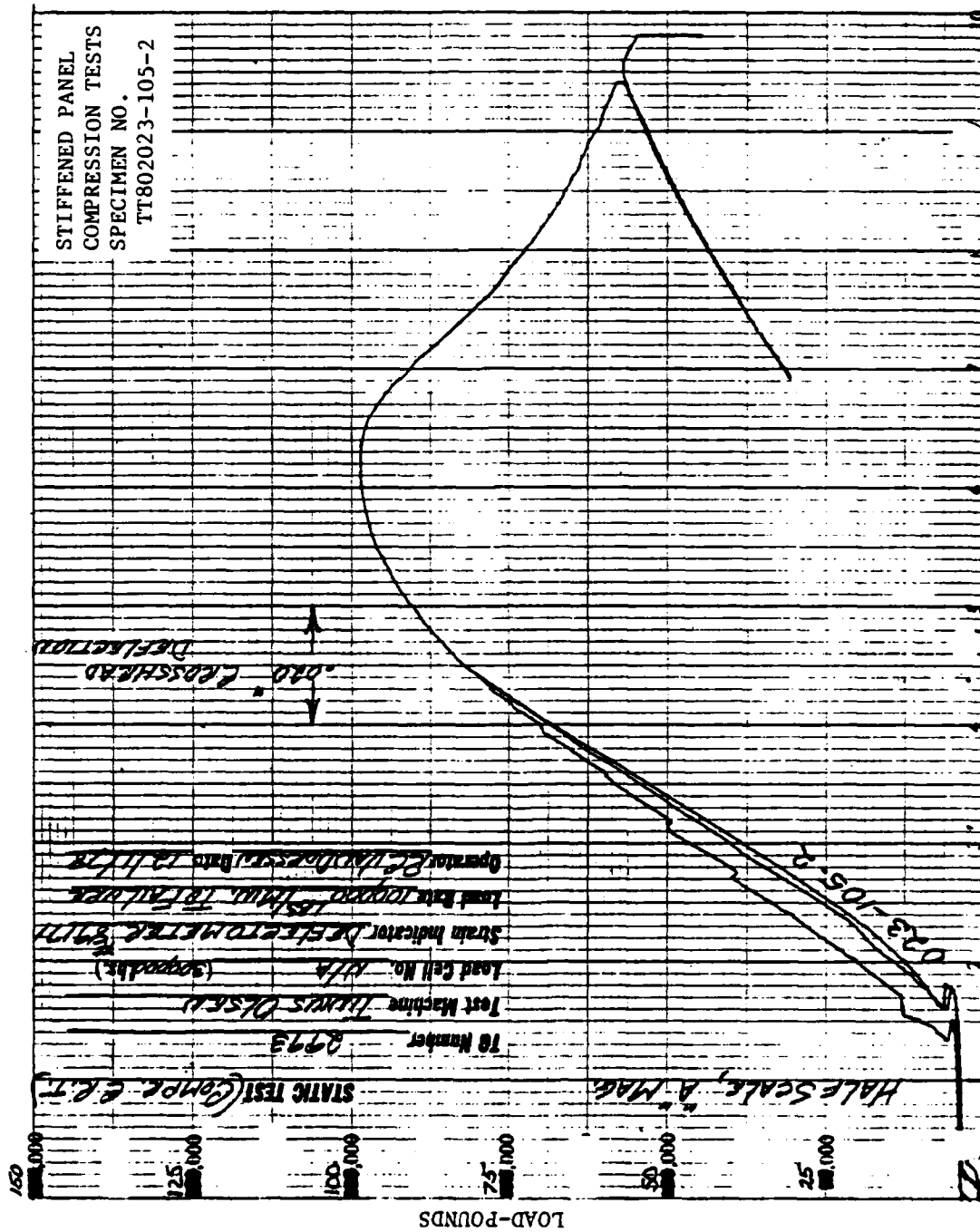
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PANEL TT802023-105-1

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01201780	01201780	01201780	01201780	01201780	01201780
75K	80K	85K	90K	94.5K	Post Buckling @ 83.5K



COMPRESSIVE DEFORMATION - INCHES x 0.02

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PANEL TT802023-105-2

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29+00000	10+00000	29+00003	29+00152	29+00330	29+00472
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27+00001	08+00001	27+00005	27+00124	27+00263	27+00391
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24+00000	05+00001	24+00005	24+00197	24+00463	24+00725
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Zero Ref.	DEFL. IND.	16+00006	16+00006	16+00065	16+00066
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24+01414		03+00008	03+00005	03+00018	03+00032
23+01415		02+00010	02+00000	02+00004	02+00006
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Strain Gage,		Test Start 0	10K	20K	30K
R Cal		@ .5K			

PANEL TT802023-105-2

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PANEL TT802023-105-2

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13-00026	13-00287	13-00407	13-00490	13-00656
12-00014	12-00172	12-00227	12-00261	12-00333
11-00005	11-00014	11-00016	11-00017	11-00009
10-00012	10-00040	10-00060	10-00079	10-00118
09-00030	09-00240	09-00281	09-00431	09-00690
08-00025	08-00300	08-00349	08-00514	08-00902
07-00015	07-00155	07-00178	07-00214	07-00244
06-00000	06-00017	06-00017	06-00017	06-00004
05-00027	05-00189	05-00227	05-00343	05-00495
04-00000	04-00083	04-00101	04-00162	04-00380
03-00014	03-00207	03-00242	03-00353	03-00578
02-00000	02-00088	02-00104	02-00175	02-00413
01-00031	01-00214	01-00315	01-00403	01-00481
0153700	01538340	01539110	01539340	01539540
01201780	01201780	01201780	01201780	01201780
	80K	90K	95K	99K

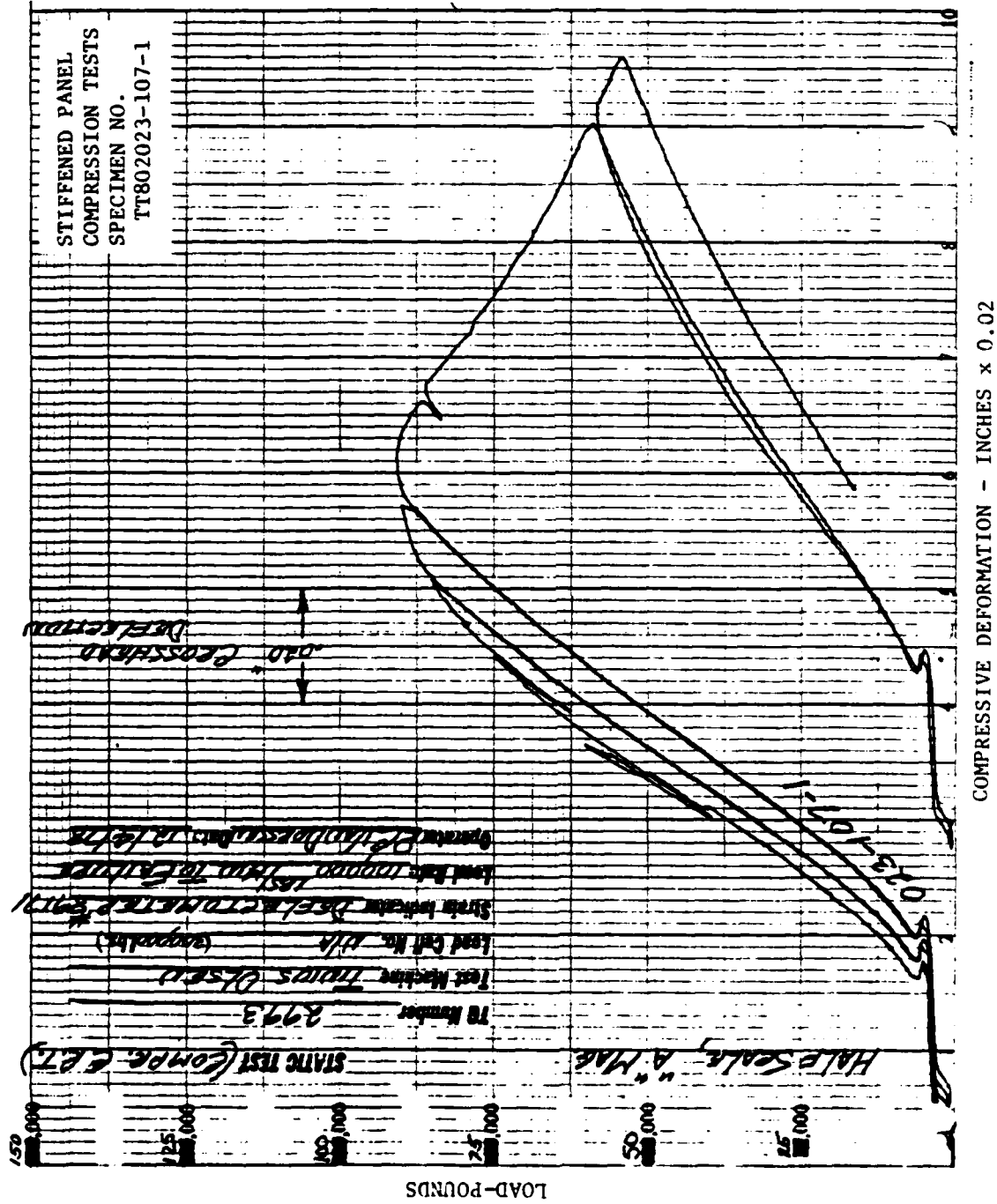
Perm. Set Check
@ 0

TER073

PANEL TT802023-105-2 12/1/78 SHEET 4 of 4

34-03431
33-00647
32-00400
31-00720
30-01092
29-00723
28-01106
27-02492
26-00931
25-00679
24-07177
23-01921
22-00209
21-01978
20-00031
19-00061
18-00007
17-00004
16-00004
15-00085
14-00575
13-01480
12-00113
11-00012
10-00121
09-00026
08-00012
07-00047
06-00023
05-00215
04-01468
03-01289
02-01503
01-00169
01541100
01201780

Post Buckling
@ 57.5K



SHEET 1 of 4	
PANEL TT802023-107-1	12/4/78
34-00002	34-00237
33-00002	33-00351
32-00001	32-00297
31-00002	31-00432
30-00002	30-00273
29-00001	29-00330
28-00000	28-00479
27-00001	27-00140
26-00001	26-00306
25-00001	25-00092
24-00001	24-00576
23-00001	23-00358
22-00001	22-00584
21-00002	21-00286
20-00001	20-00448
19-00001	19-00001
18-00001	18-00005
17-00001	17-00002
16-00001	16-00006
15-00001	15-00000
14-00001	14-00022
13-00001	13-00034
12-00001	12-00020
11-00001	11-00001
10-00001	10-00001
09-00001	09-00022
08-00001	08-00003
07-00001	07-00024
06-00001	06-00000
05-00001	05-00018
04-00001	04-00012
03-00001	03-00032
02-00001	02-00013
01-00001	01-00016
00-00001	00-00000
0130000	0130220
01204780	01204780
34-00008	34-00117
33-00004	33-00164
32-00004	32-00130
31-00003	31-00200
30-00002	30-00141
29-00010	29-00151
28-00007	28-00212
27-00006	27-00068
26-00002	26-00183
25-00001	25-00050
24-00003	24-00263
23-00012	23-00174
22-00006	22-00173
21-00006	21-00137
20-00008	20-00039
19-00004	19-00004
18-00004	18-00004
17-00003	17-00002
16-00005	16-00006
15-00000	15-00001
14-00000	14-00010
13-00004	13-00012
12-00004	12-00005
11-00000	11-00000
10-00002	10-00001
09-00005	09-00005
08-00007	08-00011
07-00005	07-00005
06-00000	06-00000
05-00005	05-00005
04-00009	04-00002
03-00012	03-00009
02-00012	02-00003
01-00004	01-00005
00-00000	00-00000
0130000	01301240
01204780	01204780
Test Start 0	10K
@ .5K	20K
30K	

SHEET 2 of 4

12/4/78

PANEL TT802023-107-1

34-00483	34-00456	34-00730	34-00766	34-00808
33-00828	33-01438	33-01745	33-01891	33-02023
32-00612	32-00899	32-01019	32-01066	32-01111
31-00514	31-01401	31-01568	31-01661	31-01721
30-00455	30-00520	30-00525	30-00516	30-00494
29-00481	29-01041	29-01231	29-01326	29-01431
28-01123	28-01939	28-02430	28-02703	28-03003
27-00247	27-00215	27-00097	27-00003	27-00123
26-00651	26-01025	26-01240	26-01355	26-01485
25-00097	25-00039	25-00090	25-00001	25-00736
24-01247	24-01616	24-02035	24-02782	24-03073
23-00715	23-00892	23-01090	23-01322	23-01603
22-00722	22-00918	22-01034	22-01056	22-01025
21-00555	21-00775	21-01066	21-01436	21-01489
20-00041	20-00044	20-00047	20-00044	20-00051
19-00000	19-00004	19-00000	19-00004	19-00004
18-00002	18-00004	18-00004	18-00004	18-00004
17-00002	17-00002	17-00002	17-00002	17-00002
16-00006	16-00005	16-00005	16-00005	16-00005
15-00000	15-00005	15-00007	15-00008	15-00013
14-00056	14-00080	14-00116	14-00186	14-00219
13-00100	13-00149	13-00211	13-00354	13-00415
12-00065	12-00096	12-00139	12-00234	12-00279
11-00011	11-00015	11-00024	11-00033	11-00049
10-00002	10-00003	10-00006	10-00008	10-00014
09-00058	09-00085	09-00114	09-00160	09-00223
08-00119	08-00169	08-00236	08-00329	08-00454
07-00072	07-00107	07-00149	07-00207	07-00292
06-00005	06-00009	06-00014	06-00015	06-00023
05-00058	05-00088	05-00129	05-00178	05-00244
04-00034	04-00051	04-00069	04-00109	04-00167
03-00077	03-00113	03-00157	03-00222	03-00305
02-00040	02-00054	02-00080	02-00120	02-00183
01-00064	01-00100	01-00146	01-00205	01-00296
01304260	01306190	01307400	01308560	01311580
01204780	01204780	01204780	01204780	01204780

40K

50K

60K

70K

75K

80K

SHEET 3 of 4

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PANEL TT802023-107-1

34-00444	34-00411	34-00840	34-01008	34-00841	34-00997
33-02146	33-00429	33-02124	33-02165	33-00819	33-02254
32-01156	32-00087	32-01124	32-01157	32-00105	32-01204
31-01000	31-00747	31-01783	31-01874	31-00945	31-01934
30-00433	30-00275	30-00426	30-00267	30-00374	30-00221
29-01564	29-00112	29-01563	29-01726	29-00186	29-01760
28-03405	28-00012	28-03403	28-04196	28-00246	28-04418
27-00329	27-00092	27-00332	27-00799	27-00126	27-00927
26-01454	26-00147	26-01658	26-01504	26-00253	26-01951
25-01118	25-00225	25-01136	25-02005	25-00425	25-02182
24-03460	24-00063	24-03461	24-04368	24-00554	24-04552
23-01817	23-00246	23-01829	23-02230	23-00483	23-02306
22-00944	22-00183	22-00414	22-00738	22-00233	22-00700
21-01439	21-00828	21-01501	21-01254	21-00976	21-01201
20-00455	20-00044	20-00454	20-00687	20-00686	20-00466
19-00402	19-00001	19-00402	19-00601	19-00601	19-00402
18-00004	18-00004	18-00003	18-00604	18-00604	18-00603
17-00001	17-00002	17-00001	17-00604	17-00604	17-00603
16-00004	16-00006	16-00004	16-00604	16-00604	16-00603
15-00017	15-00001	15-00016	15-00027	15-00004	15-00026
14-00272	14-00035	14-00275	14-00368	14-00071	14-00382
13-00508	13-00045	13-00513	13-00691	13-00109	13-00722
12-00385	12-00042	12-00350	12-00474	12-00096	12-00496
11-00064	11-00015	11-00064	11-00094	11-00032	11-00096
10-00017	10-00002	10-00018	10-00024	10-00004	10-00024
09-00269	09-00030	09-00273	09-00356	09-00071	09-00366
08-00558	08-00047	08-00562	08-00756	08-00146	08-00767
07-00360	07-00056	07-00365	07-00484	07-00108	07-00502
06-00032	06-00006	06-00032	06-00040	06-00014	06-00041
05-00302	05-00045	05-00302	05-00355	05-00094	05-00408
04-00216	04-00007	04-00220	04-00332	04-00030	04-00354
03-00372	03-00033	03-00376	03-00497	03-00081	03-00516
02-00237	02-00007	02-00240	02-00362	02-00036	02-00389
01-00365	01-00073	01-00373	01-00498	01-00150	01-00498
01313100	01314500	01316080	01316290	01318010	01319170
01204780	01204780	01204780	01204780	01204780	01204780

Perm. Set Check
@ 0

90K

85K

Perm. Set Check
@ 0

85K

SHEET 4 of 4

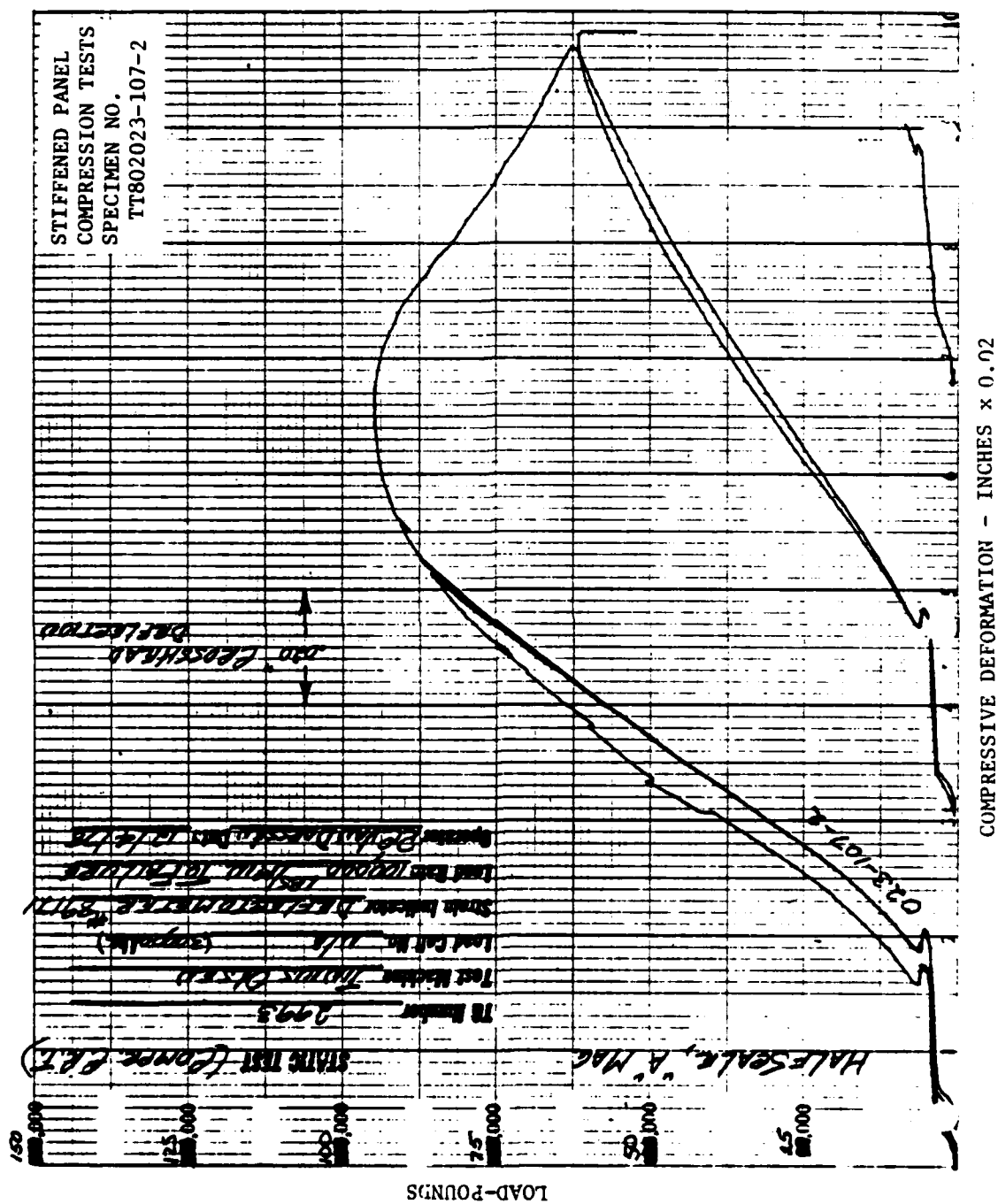
12/4/78

PANEL TT802023-107-1

34-01329	34-01102	34-02997
33-02208	33-00997	33-00276
32-01186	32-00083	32-00768
31-01964	31-01017	31-00216
30-00199	30-00244	30-01793
29-01760	29-00214	29-01053
28-06662	28-00538	28-00000
27-02346	27-01777	27-01785
26-02176	26-01230	26-01877
25-03474	25-01769	25-05058
24-06376	24-15546	24-23589
23-02549	23-00911	23-01165
22-00533	22-00290	22-00506
21-00724	21-00045	21-01132
20-06097	20-00052	20-00044
19-06002	19-06000	19-00001
18-06004	18-06004	18-00005
17-00002	17-06062	17-00002
16-00004	16-00004	16-00005
15-00027	15-06004	15-00003
14-00425	14-00080	14-00100
13-00009	13-00709	13-00709
12-00580	12-00300	12-00550
11-00112	11-00063	11-00112
10-00025	10-00006	10-00006
09-00398	09-00076	09-00142
08-00458	08-00672	08-00671
07-00576	07-00329	07-00590
06-00040	06-00023	06-00033
05-00465	05-00159	05-00044
04-00487	04-00602	04-01416
03-00614	03-00498	03-01107
02-00522	02-00589	02-01420
01-00497	01-00237	01-00141
01319330	01321210	01322090
01208780	01208780	01208780

Post Buckling Post Buckling Load
 Perm. Set Check @ 58.5K
 @ 0
 (Channels 8 & 13 disconnected)
 (Channels 8 & 13 disconnected)

9.1K



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PANEL TT802023-107-2

34-00001
33-00002
32-00001
31-00001
30-00000
29-00001
28-00001
27-00000
26-00000
25-00001
24-00001
23-00000
22-00001
21-00000
01551500
01204780
Strain Gage
Zero Ref
34-01415
33-01414
32-01416
31-01416
30-01415
29-01417
28-01414
27-01414
26-01419
25-01415
24-01413
23-01412
22-01412
21-01412
01551580
01204780
Strain Gage
R Cal

15-00000
14-00001
13-00000
12-00001
11-00000
10-00000
09-00000
08-00001
07-00005
06-00001
05-00002
04-00013
03-00013
02-00011
01-00005
01550690
01204780
Test Start 0
0.5K

34-00012
33-00011
32-00006
31-00010
30-00014
29-00012
28-00008
27-00003
26-00011
25-00002
24-00002
23-00011
22-00012
21-00006
20-00006
19-00006
18-00005
17-00003
16-00006
15-00001
14-00000
13-00003
12-00000
11-00000
10-00000
09-00004
08-00003
07-00005
06-00001
05-00002
04-00001
03-00005
02-00000
01-00005
01609460
01204780

34-00210
33-00171
32-00127
31-00172
30-00124
29-00149
28-00224
27-00070
26-00154
25-00097
24-00201
23-00166
22-00190
21-00118
20-00047
19-00004
18-00005
17-00002
16-00005
15-00005
14-00005
13-00010
12-00004
11-00001
10-00002
09-00004
08-00009
07-00004
06-00003
05-00002
04-00001
03-00005
02-00000
01-00005
01609460
01204780

34-00412
33-00364
32-00293
31-00378
30-00265
29-00337
28-00500
27-00143
26-00332
25-00209
24-00452
23-00340
22-00406
21-00256
20-00047
19-00004
18-00005
17-00002
16-00005
15-00004
14-00019
13-00027
12-00016
11-00002
10-00003
09-00015
08-00032
07-00018
06-00004
05-00012
04-00010
03-00023
02-00006
01-00014
01610400
01204780

34-00590
33-00559
32-00455
31-00593
30-00356
29-00507
28-00769
27-00200
26-00509
25-00306
24-00707
23-00520
22-00608
21-00393
20-00047
19-00004
18-00005
17-00002
16-00005
15-00004
14-00033
13-00054
12-00027
11-00002
10-00002
09-00026
08-00055
07-00035
06-00009
05-00026
04-00016
03-00041
02-00013
01-00026
01610400
01204780

30K

20K

10K

SHEET 2 of 4

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PANEL TT802023-107-2

34-00700	34-01035	34-01183	34-01292	34-01414
33-00758	33-01115	33-01268	33-01282	33-01359
32-00617	32-00913	32-01042	32-01075	32-01144
31-00836	31-01108	31-01175	31-01172	31-01203
30-00518	30-00693	30-00783	30-00817	30-00878
29-00675	29-01013	29-01187	29-01253	29-01352
28-01112	28-01047	28-01187	28-01256	28-01276
27-00239	27-00206	27-00097	27-00031	27-00092
26-00694	26-01084	26-01316	26-01418	26-01578
25-00351	25-00454	25-00454	25-00419	25-00347
24-00391	24-01652	24-02073	24-02253	24-02542
23-00696	23-01066	23-01291	23-01386	23-01532
22-00603	22-01168	22-01216	22-01180	22-01120
21-00581	21-01062	21-01490	21-01646	21-01617
20-00541	20-00654	20-00757	20-00859	20-00869
19-00604	19-00000	19-00001	19-00001	19-00001
18-00604	18-00604	18-00604	18-00604	18-00604
17-00602	17-00602	17-00602	17-00602	17-00602
16-00605	16-00605	16-00605	16-00605	16-00605
15-00600	15-00004	15-00014	15-00017	15-00024
14-00654	14-00112	14-00161	14-00192	14-00236
13-00605	13-00174	13-00251	13-00295	13-00357
12-00643	12-00097	12-00142	12-00169	12-00205
11-00602	11-00005	11-00010	11-00011	11-00016
10-00602	10-00002	10-00003	10-00006	10-00008
09-00604	09-00094	09-00138	09-00166	09-00205
08-00657	08-00172	08-00249	08-00290	08-00352
07-00655	07-00113	07-00161	07-00193	07-00230
06-00608	06-00017	06-00022	06-00026	06-00030
05-00647	05-00107	05-00161	05-00192	05-00232
04-00623	04-00055	04-00081	04-00098	04-00121
03-00659	03-00126	03-00179	03-00210	03-00252
02-00621	02-00029	02-00075	02-00093	02-00115
01-00646	01-00073	01-00145	01-00178	01-00210
01611301	01611560	01613250	01614010	01615100
01204780	01204780	01204780	01204780	01204780

80K

75K

70K

60K

50K

40K

SHEET 3 of 4

PANEL TT802023-107-2

12/4/78

34-01650	34-01757	34-01086	34-01796	34-02343	34-05755
33-01323	33-01306	33-01033	33-01287	33-01115	33-00351
32-01198	32-01226	32-00053	32-01220	32-01255	32-01134
31-01623	31-01684	31-00780	31-01890	31-01972	31-03775
30-00987	30-01006	30-00813	30-01014	30-01140	30-01344
29-01428	29-01462	29-00014	29-01466	29-01513	29-01615
28-03054	28-03146	28-00008	28-03157	28-03374	28-04527
27-00242	27-00307	27-00013	27-00317	27-00470	27-01668
26-01742	26-01801	26-00196	26-01811	26-01940	26-02605
25-00243	25-00193	25-00099	25-00184	25-00065	25-00999
24-02620	24-02912	24-00010	24-02924	24-03147	24-04273
23-01679	23-01729	23-00166	23-01738	23-01849	23-02393
22-01615	22-00956	22-00123	22-00941	22-00872	22-00250
21-01932	21-01961	21-00902	21-01965	21-01942	21-01443
20-00055	20-00049	20-00049	20-00057	20-00058	20-00061
19-00000	19-00000	19-00000	19-00000	19-00000	19-00000
18-00004	18-00004	18-00004	18-00004	18-00004	18-00004
17-00002	17-00002	17-00002	17-00002	17-00002	17-00002
16-00005	16-00005	16-00005	16-00005	16-00005	16-00005
15-00036	15-00039	15-00001	15-00038	15-00038	15-00141
14-00294	14-00316	14-00045	14-00323	14-00374	14-00073
13-00437	13-00470	13-00045	13-00474	13-00541	13-00098
12-00250	12-00270	12-00034	12-00272	12-00313	12-00508
11-00023	11-00022	11-00004	11-00023	11-00031	11-00051
10-00016	10-00015	10-00002	10-00015	10-00020	10-00064
09-00259	09-00293	09-00037	09-00285	09-00334	09-00626
08-00426	08-00457	08-00041	08-00493	08-00529	08-00095
07-00260	07-00301	07-00031	07-00306	07-00346	07-00549
06-00035	06-00035	06-00006	06-00034	06-00044	06-00052
05-00267	05-00308	05-00049	05-00313	05-00357	05-00559
04-00156	04-00174	04-00005	04-00174	04-00206	04-00427
03-00305	03-00327	03-00028	03-00332	03-00374	03-00600
02-00121	02-00164	02-00000	02-00168	02-00199	02-00417
01-00255	01-00274	01-00042	01-00277	01-00313	01-00450
01615360	01617200	01618210	01619310	01619520	01620430
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85K	87K	Perm. Set Check @ 0	87K	90K	94.75K

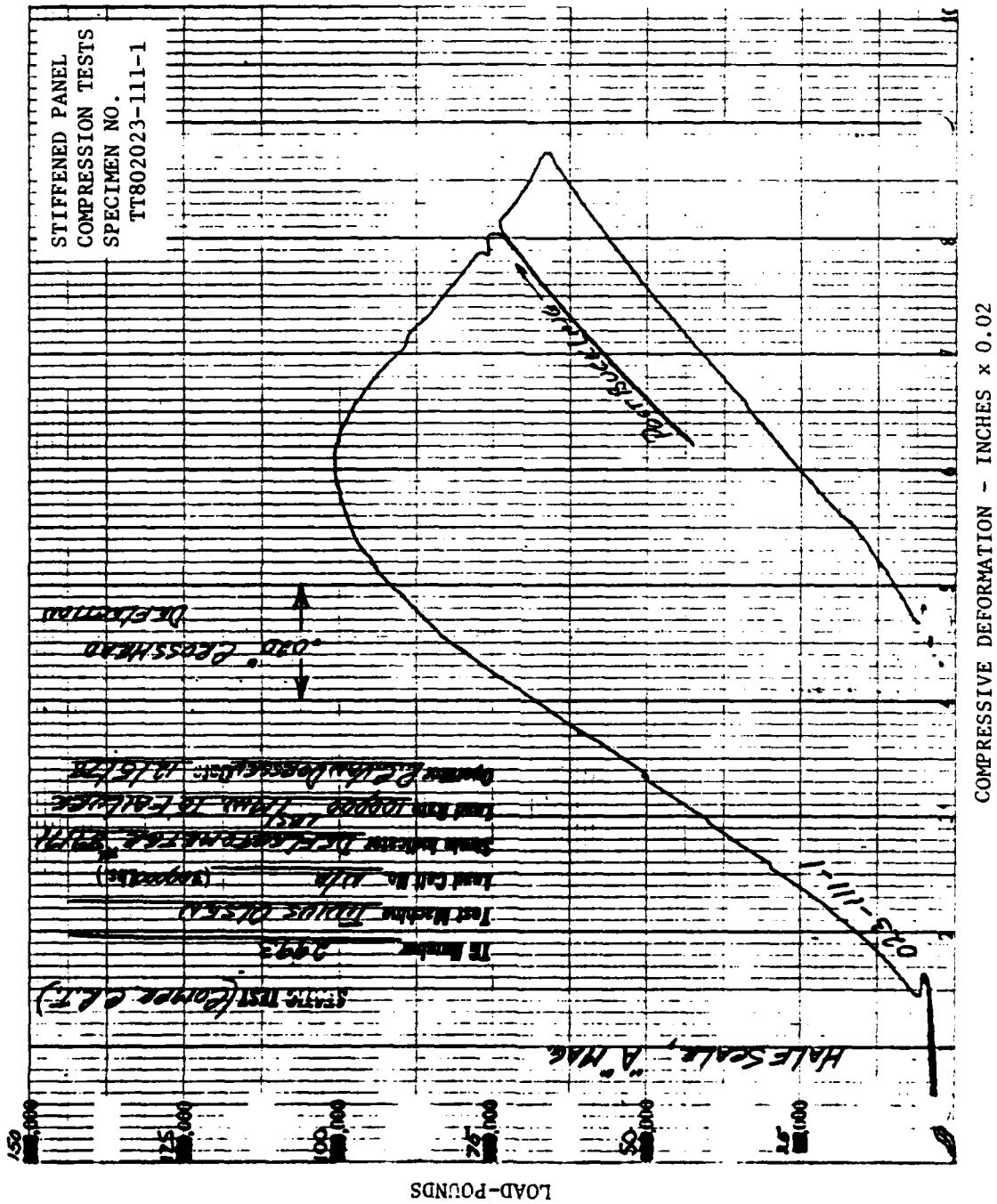
SHEET 4 of 4

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PANEL TT802023-107-2

34-05691
 33-01797
 32-00110
 31-00445
 30-02340
 29-00067
 28-03428
 27-02058
 26-01141
 25-01924
 24-03401
 23-00831
 22-00311
 21-00750
 20-00658
 19-00601
 18-00609
 17-00601
 16-00604
 15-00101
 14-00119
 13-00122
 12-00205
 11-00027
 10-00042
 09-00383
 08-00954
 07-00317
 06-00001
 05-00306
 04-00592
 03-00520
 02-00571
 01-00202
 01621580
 01204780

Post Buckling @ 0
 (Channel 13 dis-
 connected)



SHEET 1 of 3

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PANEL TT802023-111-1

34-00001	34-00055	34-00057	34-00005	34-00134
33-00000	33-00018	33-00018	33-00005	33-00049
32-00003	32-00066	32-00069	32-00018	32-00159
31-00003	31-00015	31-00053	31-00004	31-00145
30-00002	30-00015	30-00067	30-00004	30-00194
29-00004	29-00017	29-00054	29-00005	29-00141
28-00001	28-00013	28-00032	28-00002	28-00081
27-00002	27-00015	27-00062	27-00003	27-00154
26-00001	26-00013	26-00074	26-00018	26-00168
25-00001	25-00016	25-00066	25-00001	25-00190
24-00002	24-00014	24-00034	24-00000	24-00096
23-00000	23-00015	23-00064	23-00002	23-00174
22-00000	22-00016	22-00049	22-00007	22-00118
21-00001	21-00015	21-00079	21-00010	21-00194
20-00000	20-00059	20-00051	20-00037	20-00370
19-00001	19-00000	19-00001	19-00003	19-00003
18-00000	18-00003	18-00003	18-00003	18-00003
17-00003	17-00003	17-00003	17-00003	17-00003
16-00003	16-00004	16-00004	16-00004	16-00004
15-00012	15-00012	15-00012	15-00001	15-00000
14-00017	14-00017	14-00022	14-00001	14-00004
13-00139	13-00140	13-00140	13-00000	13-00000
12-00086	12-00086	12-00076	12-00000	12-00000
11-00076	11-00076	11-00073	11-00001	11-00002
10-00529	10-00529	10-00522	10-00000	10-00000
09-00250	09-00249	09-00241	09-00002	09-00000
08-00142	08-00141	08-00132	08-00001	08-00000
07-00351	07-00352	07-00325	07-00002	07-00002
06-00391	06-00390	06-00364	06-00001	06-00001
05-00368	05-00368	05-00356	05-00001	05-00001
04-00340	04-00341	04-00340	04-00001	04-00000
03-00076	03-00077	03-00322	03-00000	03-00000
02-00197	02-00197	02-00451	02-00002	02-00002
01-00270	01-00270	01-00532	01-00009	01-00001
01541450	01541450	01541450	015534701	01553430
01204780	01204780	01204780	012047801	01204780

Test Start
0DEFL. IND.
ZERO REF.
@ 5K

5K

Strain Gage
R CalStrain Gage
Zero Ref.

PANEL TT802023-111-1

30K	40K	50K	60K	70K
34-00327	34-00702	34-00A85	34-01035	34-01160
33-00209	33-00303	33-00387	33-00440	33-00490
32-00344	32-00673	32-00633	32-00684	32-01130
31-00446	31-00607	31-00747	31-00876	31-00971
30-00298	30-00724	30-00853	30-00901	30-00906
29-00391	29-00628	29-00783	29-00928	29-01070
28-00316	28-00338	28-00382	28-00384	28-00329
27-00181	27-00768	27-01006	27-01263	27-01557
26-00355	26-00735	26-00947	26-01172	26-01420
25-00419	25-00874	25-01128	25-01365	25-01611
24-00197	24-00328	24-00353	24-00349	24-00298
23-00385	23-00825	23-01071	23-01332	23-01613
22-00246	22-00442	22-00539	22-00616	22-00617
21-00928	21-00922	21-01144	21-01328	21-01546
20-00030	20-00034	20-00034	20-00024	20-00029
19-00004	19-00004	19-00004	19-00004	19-00004
18-00004	18-00004	18-00004	18-00004	18-00004
17-00004	17-00004	17-00004	17-00004	17-00004
16-00004	16-00004	16-00004	16-00004	16-00004
15-00005	15-00009	15-00013	15-00018	15-00027
14-00009	14-00025	14-00035	14-00053	14-00079
13-00000	13-00000	13-00000	13-00000	13-00000
12-00008	12-00012	12-00017	12-00021	12-00028
11-00005	11-00008	11-00009	11-00011	11-00013
10-00000	10-00004	10-00009	10-00011	10-00018
09-00008	09-00023	09-00035	09-00052	09-00080
08-00001	08-00001	08-00001	08-00001	08-00001
07-00007	07-00015	07-00029	07-00041	07-00055
06-00000	06-00000	06-00006	06-00006	06-00014
05-00001	05-00000	05-00000	05-00000	05-00000
04-00001	04-00000	04-00000	04-00000	04-00000
03-00001	03-00003	03-00005	03-00004	03-00005
02-00002	02-00003	02-00002	02-00002	02-00006
01-00014	01-00019	01-00028	01-00033	01-00040
015543601	015553101	0155550	01557110	01558280
*12047801	*12047801	*1204780	*1204780	*1204780

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PANEL TT802023-111-1

34-01254	34-01394	34-01518	34-01897	34-03250	34-01671
33-00505	33-00374	33-00154	33-00567	33-02551	33-04124
32-01277	32-01468	32-01066	32-01857	32-01444	32-01388
31-00988	31-00833	31-00581	31-00307	31-02689	31-04655
30-00930	30-01060	30-01392	30-02573	30-04637	30-03210
29-01208	29-01394	29-01511	29-01642	29-01165	29-01406
28-00187	28-00104	28-00330	28-00806	28-02082	28-05716
27-01460	27-02202	27-02397	27-02773	27-03995	27-07707
26-01689	26-02055	26-02278	26-02600	26-02761	26-02240
25-01431	25-02073	25-02200	25-02474	25-03311	25-05437
24-00186	24-00039	24-00200	24-00564	24-01539	24-04264
23-01916	23-02287	23-02480	23-02803	23-02310	23-02310
22-00494	22-00240	22-00057	22-00271	22-00482	22-00865
21-01508	21-02083	21-02206	21-02307	21-02046	21-00674
20-00029	20-00027	20-00028	20-00026	20-00024	20-00013
19-00004	19-00004	19-00004	19-00004	19-00004	19-00005
18-00009	18-00009	18-00010	18-00010	18-00010	18-00011
17-00007	17-00006	17-00007	17-00007	17-00007	17-00009
16-00009	16-00009	16-00009	16-00010	16-00010	16-00013
15-00034	15-00056	15-00073	15-00115	15-00214	15-00478
14-00119	14-00186	14-00236	14-00350	14-00560	14-01026
13-00000	13-00000	13-00000	13-00003	13-00009	13-00023
12-00039	12-00058	12-00070	12-00090	12-00094	12-00071
11-00020	11-00028	11-00031	11-00040	11-00042	11-00036
10-00029	10-00045	10-00060	10-00097	10-00186	10-00053
09-00114	09-00177	09-00060	09-00336	09-00541	09-01041
08-00001	08-00001	08-00001	08-00002	08-00006	08-00015
07-00073	07-00096	07-00114	07-00139	07-00148	07-00106
06-00018	06-00028	06-00032	06-00045	06-00049	06-00036
05-00000	05-00008	05-00012	05-00030	05-00071	05-00035
04-00000	04-00001	04-00004	04-00022	04-00079	04-00354
03-00005	03-00005	03-00004	03-00022	03-00060	03-00365
02-00005	02-00004	02-00004	02-00024	02-00074	02-00365
01-00046	01-00051	01-00067	01-00067	01-00104	01-00351
01559030	01559520	01600200	01600530	01601090	01602180
01204780	01204780	01204780	01204780	01204780	01204780

Post Buckling
@ 74.25K

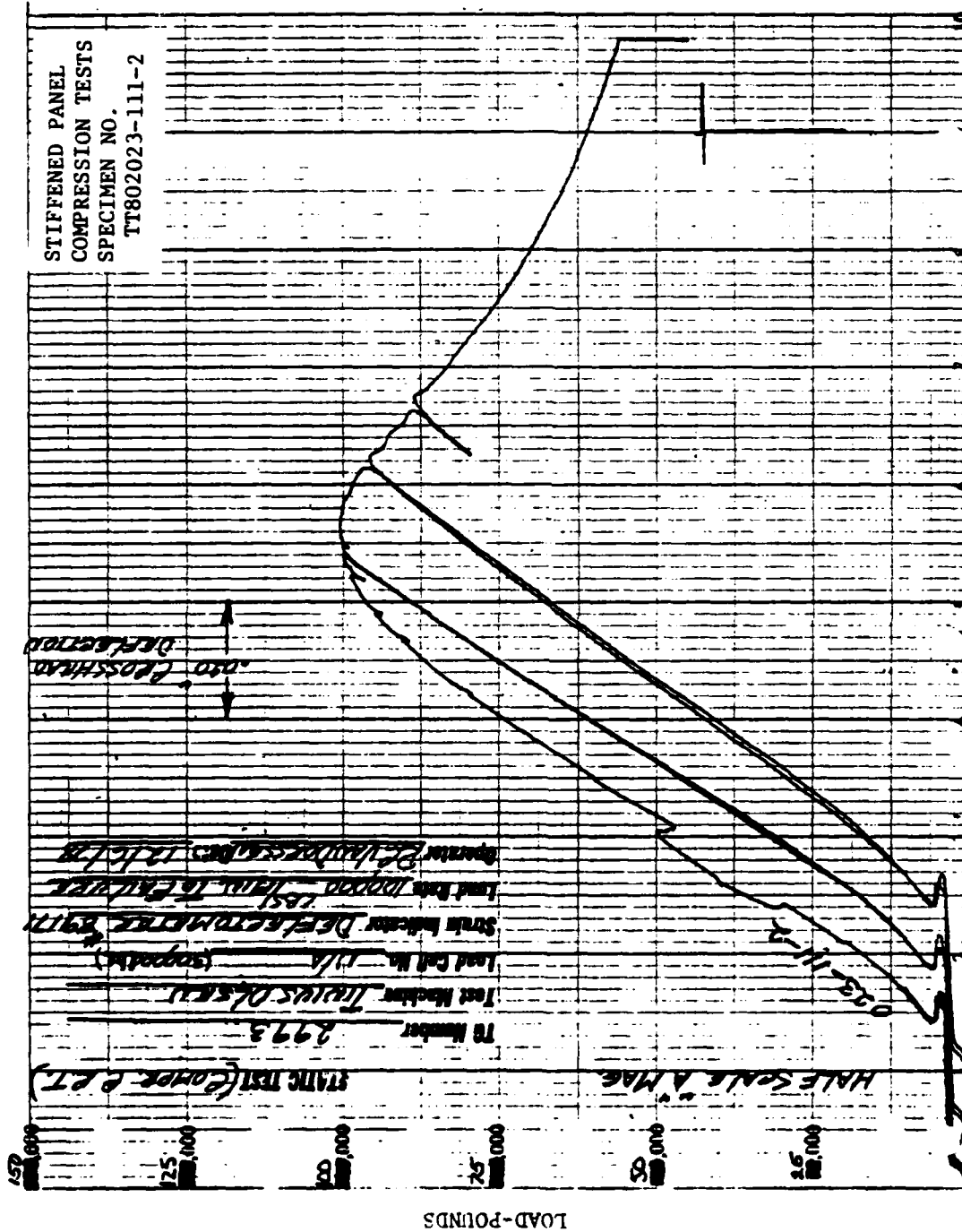
101K

100K

95K

90K

80K



COMPRESSIVE DEFORMATION - INCHES x 0.02

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12/6/78

PANEL TT802023-111-2

Strain Gage Zero Ref.	Strain Gage R Cal	DEFL. IND. ZERO REF. @ 5K	Test Start 0	10K	20K
34-00003	34+01414	34+01343	34+00002	34-00199	34-00409
33-00004	33+01417	33+01385	33-00001	33-00091	33-00197
32-00003	32+01417	32+01362	32-00006	32-00143	32-00315
31-00003	31+01414	31+01374	31-00003	31-00105	31-00229
30-00003	30+01415	30+01336	30-00001	30-00203	30-00450
29-00002	29+01416	29+01354	29-00013	29-00157	29-00336
28-00003	28+01415	28+01372	28-00000	28-00127	28-00274
27-00001	27+01416	27+01352	27-00002	27-00168	27-00360
26-00000	26+01416	26+01358	26-00001	26-00146	26-00325
25-00000	25+01419	25+01363	25-00001	25-00144	25-00333
24-00002	24+01416	24+01361	24-00003	24-00138	24-00296
23-00002	23+01415	23+01338	23-00019	23-00162	23-00378
22-00001	22+01416	22+01363	22-00006	22-00128	22-00264
21-00002	21+01417	21+01342	21-00008	21-00181	21-00399
20-00002	20+00055	20-00036	20-00035	20-00633	20-00634
19-00006	19+00003	19-00005	19-00006	19-00604	19-00603
18-00009	18+00007	18-00004	18-00006	18-00609	18-00608
17-00009	17+00004	17-00003	17-00006	17-00606	17-00608
16-00007	16+00007	16-00004	16-00009	16-00609	16-00608
15-00061	15-00061	15-00001	15-00000	15+00000	15+00000
14+00450	14+00450	14-00000	14-00001	14+00001	14+00003
13+00251	13+00251	13-00000	13-00000	13-00000	13-00000
12+00589	12+00589	12-00000	12-00000	12-00000	12-00000
11+00460	11+00460	11-00001	11-00000	11-00002	11-00002
10+00476	10+00476	10-00000	10-00000	10+00001	10+00000
09+00214	09+00214	09-00001	09-00001	09+00004	09+00013
08+00451	08+00451	08-00001	08+00000	08+00000	08+00000
07+00270	07+00270	07-00000	07-00001	07+00003	07+00005
06+00649	06+00649	06-00000	06-00000	06+00000	06+00002
05+00133	05+00133	05-00002	05-00010	05+00003	05+00006
04+00261	04+00261	04+00001	04-00011	04+00001	04+00001
03-00002	03-00002	03+00000	03-00006	03+00001	03-00000
02+00146	02+00146	02+00001	02-00011	02-00002	02-00002
01+00106	01+00106	01-00004	01-00014	01-00004	01-00004
0032200	0032200	0033100	0033460	00336130	00336360
*1204780	*1204780	*1204780	*1204780	*1204780	*1204780

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PANEL TT802023-111-2

34-00620	34-01087	34-01238	34-01378	34-01437
33-00312	33-00545	33-00624	33-00714	33-00780
32-00482	32-00637	32-00937	32-01082	32-01199
31-00330	31-00468	31-00578	31-00735	31-00586
30-00674	30-00393	30-01099	30-01312	30-01555
29-00499	29-00667	29-00816	29-00968	29-02038
28-00410	28-00536	28-00634	28-00705	29-01287
27-00557	27-00767	27-00983	27-01228	28-00734
26-00513	26-00711	26-00914	26-01142	27-01688
25-00521	25-00720	25-00913	25-01119	26-01681
24-00434	24-00556	24-00451	24-00717	25-01615
23-00566	23-00764	23-00964	23-01182	24-00655
22-00363	22-00492	22-00753	22-01425	23-01704
21-00624	21-00835	21-00967	21-01155	22-00792
20-00635	20-00635	20-00634	20-00635	21-01706
19-00603	19-00604	19-00604	19-00604	20-00634
18-00606	18-00606	18-00606	18-00606	19-00606
17-00607	17-00606	17-00606	17-00606	18-00606
16-00609	16-00606	16-00606	16-00606	17-00606
15-00604	15-00604	15-00609	15-00612	16-00609
14-00608	14-00608	14-00626	14-00643	15-00627
13-00602	13-00601	13-00602	13-00602	14-00696
12-00600	12-00600	12-00600	12-00603	13-00602
11-00603	11-00603	11-00603	11-00603	12-00606
10-00605	10-00605	10-00609	10-00614	11-00600
09-00622	09-00631	09-00641	09-00659	10-00631
08-00600	08-00600	08-00601	08-00601	09-006125
07-00605	07-00606	07-00606	07-00610	08-00605
06-00605	06-00605	06-00605	06-00614	07-00614
05-00617	05-00617	05-00621	05-00630	06-00614
04-00601	04-00601	04-00601	04-00606	05-00643
03-00600	03-00600	03-00600	03-00606	04-00606
02-00602	02-00602	02-00605	02-00602	03-00605
01-00604	01-00608	01-00609	01-00608	02-00602
00337200	00337560	00338160	00340560	01-00604
01204780	01204780	01204780	01204780	00341280
30K	40K	50K	60K	80K

SHEET 3 of 4

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PANEL TT802023-111-2

34-01580	34-01782	34-02275	34-01483	34-02361	34-02924
33-00475	33-00475	33-00172	33-01791	33-00327	33-00917
32-01334	32-01334	32-01422	32-00056	32-01426	32-01387
31-00434	31-00434	31-01903	31-03634	31-02754	31-04164
30-03124	30-03880	30-05698	30-05641	30-06533	30-08351
29-01582	29-01677	29-01667	29-01667	29-01859	29-01817
28-00603	28-00470	28-00097	28-00095	28-00029	28-00185
27-01983	27-02143	27-02501	27-00505	27-02573	27-02747
26-02033	26-02197	26-02451	26-00481	26-02479	26-02530
25-01659	25-02026	25-02252	25-00483	25-02292	25-02374
24-00455	24-00307	24-00046	24-00101	24-00129	24-00280
23-02052	23-02305	23-02649	23-00464	23-02696	23-02771
22-00578	22-00413	22-00045	22-00478	22-00035	22-00163
21-01996	21-02116	21-02267	21-00637	21-02296	21-02256
20-00033	20-00033	20-00033	20-00034	20-00031	20-00031
19-00005	19-00005	19-00005	19-00004	19-00005	19-00004
18-00008	18-00008	18-00008	18-00009	18-00009	18-00009
17-00007	17-00007	17-00007	17-00007	17-00007	17-00007
16-00010	16-00010	16-00010	16-00009	16-00009	16-00010
15-00061	15-00061	15-00102	15-00042	15-00111	15-00142
14-00198	14-00198	14-00303	14-00089	14-00326	14-00379
13-00001	13-00001	13-00000	13-00001	13-00000	13-00001
12-00021	12-00021	12-00036	12-00008	12-00037	12-00039
11-00006	11-00006	11-00017	11-00002	11-00016	11-00018
10-00068	10-00068	10-00110	10-00050	10-00122	10-00149
09-00236	09-00236	09-00343	09-00107	09-00367	09-00419
08-00005	08-00005	08-00009	08-00005	08-00009	08-00010
07-00023	07-00023	07-00032	07-00010	07-00037	07-00036
06-00022	06-00022	06-00027	06-00009	06-00027	06-00027
05-00057	05-00057	05-00066	05-00022	05-00070	05-00079
04-00014	04-00014	04-00028	04-00006	04-00037	04-00049
03-00009	03-00009	03-00026	03-00000	03-00031	03-00045
02-00007	02-00007	02-00022	02-00000	02-00025	02-00038
01-00010	01-00010	01-00027	01-00009	01-00029	01-00037
00344370	00344370	00346060	00347010	00348250	00348450
*1204780	*1204780	*1204780	*1204780	*1204780	*1204780
90K	95K	100K	Perm. Set Check @ 0	100 K	100.6K

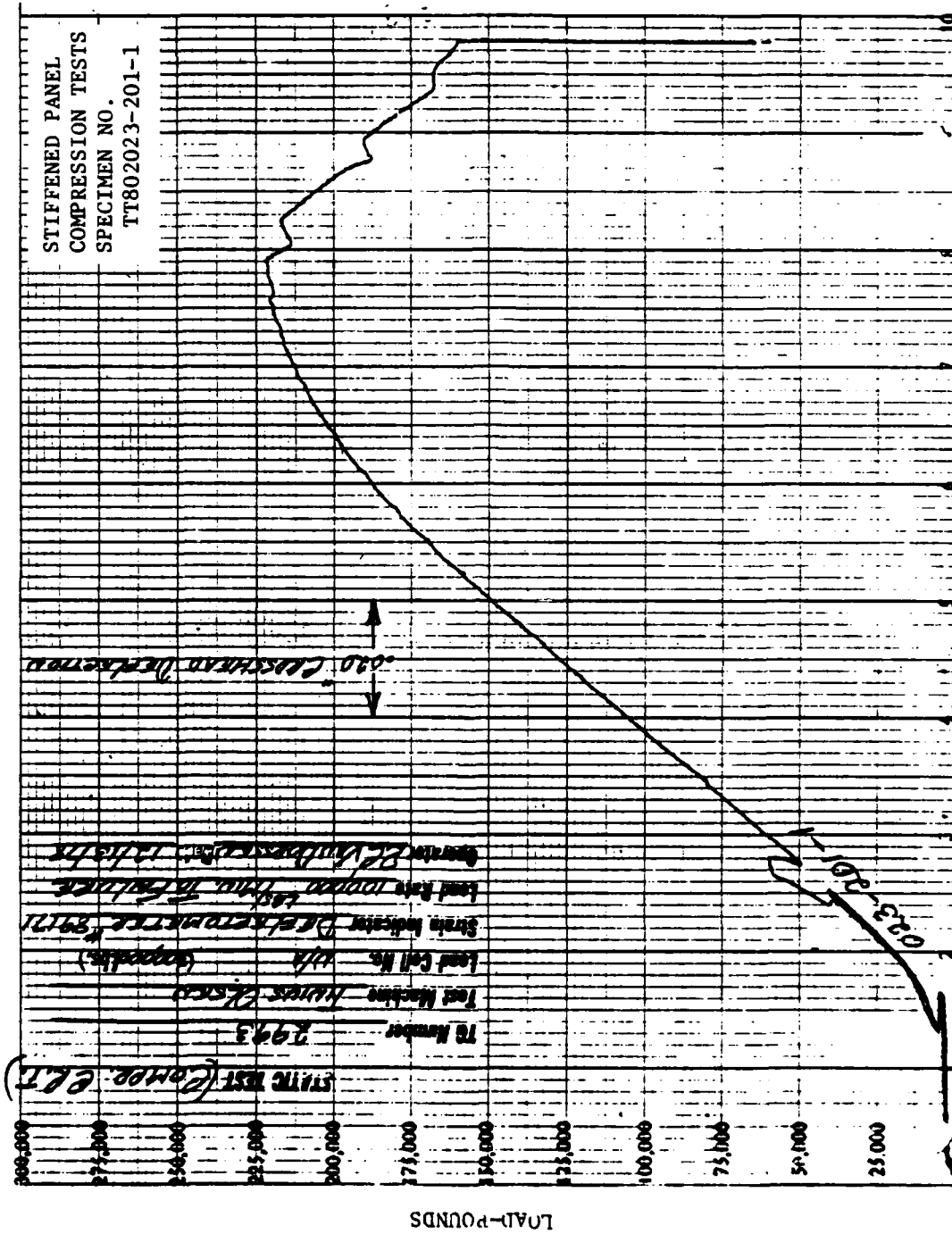
SHEET 4 of 4

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PANEL TT802023-111-2

34-03854	34-03324
33-02913	33-02424
32-00074	32-00467
31-08461	31-10728
30-12372	30-13832
29-00287	29-00734
28-00252	28-01532
27-00001	27-04035
26-00644	26-02450
25-00299	25-03021
24-00054	24-01175
23-00392	23-02723
22-00127	22-00595
21-00400	21-01402
20-00039	20-00029
19-00004	19-00004
18-00004	18-00009
17-00007	17-00007
16-00010	16-00010
15-00128	15-00283
14-00235	14-00612
13-00000	13-00002
12-00008	12-00026
11-00002	11-00013
10-00139	10-00294
09-00245	09-00623
08-00006	08-00018
07-00010	07-00024
06-00008	06-00027
05-00040	05-00142
04-00040	04-00134
03-00036	03-00126
02-00034	02-00119
01-00014	01-00096
00349540	00351460
*1204780	*1204780

Post Buckling
@ 96KPost Buckling
Perm Set Check
@ 0



COMPRESSION TEST - INCHES x 0.02

SHEET 1 of 4

12/13/78

PANEL TT802023-201-1

34-000000	34+014201	34+00003	34-00252	34-00569
33-000000	33+014231	33-00003	33-00015	33-00031
32-000001	32+014201	32-00010	32-00200	32-00394
31-000001	31+014191	31+00001	31-00029	31-00063
30+000001	30+014211	30-00011	30-00350	30-00687
29-000001	29+014181	29-00003	29-00177	29-00358
28-000001	28+014201	28-00007	28-00130	28-00285
27-000002	27+014211	27+00003	27-00182	27-00397
26-000001	26+014211	26-00014	26-00231	26-00465
25-000002	25+014201	25-00005	25-00212	25-00417
24-000001	24+014201	24-00003	24-00190	24-00371
23-000001	23+014191	23-00006	23-00223	23-00450
22-000002	22+014201	22-00007	22-00090	22-00178
21-000002	21+014211	21-00012	21-00296	21-00604
20-000004	20-00036	20-00046	20-00006	20-00005
19-000010	19+00008	19-00013	19-00013	19-00013
18-000015	18+00013	18-00017	18-00017	18-00017
17-000013	17+00010	17-00015	17-00015	17-00015
16-000015	16+00014	16-00017	16-00017	16-00017
15-000023	15+00014	15-00002	15-00002	15-00004
14-000793	14+00793	14-00001	14-00001	14-00003
13+000729	13+00730	13-00000	13-00000	13-00001
12+000764	12+00764	12-00001	12-00003	12-00007
11-000625	11+00626	11-00002	11-00002	11-00002
10+000702	10+00703	10-00001	10-00000	10-00000
09+000708	09+00708	09-00001	09-00002	09-00001
08+000779	08+00779	08-00001	08-00000	08-00000
07+000755	07+00756	07-00000	07-00002	07-00004
06+000819	06+00820	06-00001	06-00003	06-00002
05+000553	05+00554	05-00000	05-00001	05-00002
04-000425	04+00426	04-00001	04-00001	04-00001
03+000436	03+00437	03-00001	03-00004	03-00004
02+000427	02+00427	02-00000	02-00003	02-00004
01+000607	01+00607	01-00000	01-00003	01-00003
012375401	01238010	01323130	01323570	01324270
*12117801	*12117801	*1211780	*1211780	*1211780

Test Start
0DEFL. IND.
ZERO REF.

@5K

Strain Gage
R CalStrain Gage
Zero Ref.

40K

20K

SHEET 2 of 4

12/13/78

PANEL TT802023-201-1

34-00921	34-01274	34-02077	34-02496	34-03087
33-00059	33-00076	33-00080	33-00049	33-00127
32-00573	32-00761	32-01131	32-01310	32-01494
31-00094	31-00132	31-00224	31-00220	31-00119
30-01031	30-01389	30-02101	30-02675	30-03623
29-00543	29-00716	29-01058	29-01218	29-01379
28-00434	28-00572	28-00785	28-00648	28-00877
27-00620	27-00843	27-01062	27-01463	27-01698
26-00715	26-00981	26-01260	26-01876	26-02224
25-00623	25-00830	25-01036	25-01438	25-01648
24-00546	24-00718	24-00877	24-01128	24-01217
23-00683	23-00922	23-01171	23-01751	23-02104
22-00282	22-00379	22-00452	22-00468	22-00347
21-00523	21-01249	21-02127	21-02744	21-03469
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13-00005	13-00008	13-00013	13-00014	13-00016
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11-00003	11-00005	11-00011	11-00016	11-00023
10-00001	10-00005	10-00009	10-00012	10-00016
09-00004	09-00006	09-00010	09-00015	09-00020
08-00000	08-00006	08-00001	08-00006	08-00005
07-00006	07-00011	07-00021	07-00025	07-00033
06-00007	06-00012	06-00016	06-00024	06-00034
05-00003	05-00002	05-00003	05-00003	05-00007
04-00001	04-00003	04-00004	04-00004	04-00003
03-00004	03-00009	03-00013	03-00015	03-00017
02-00000	02-00005	02-00004	02-00004	02-00004
01-00002	01-00003	01-00004	01-00003	01-00003
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*1211780	*1211780	*1211780	*1211780	*1211780
60K	80K	100K	140K	160K

SHEET 3 of 4

12/13/78

PANEL TT802023-201-1

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32-01585	32-01675	32-01856	32-01926	32-01882
31-00026	31-00120	31-00337	31-01261	31-02631
30-04208	30-05073	30-07870	30-10472	30-16865
29-01458	29-01531	29-01657	29-01688	29-01568
28-00870	28-00848	28-00734	28-00411	28-00329
27-01810	27-01932	27-02239	27-02481	27-02987
26-02404	26-02607	26-03047	26-03283	26-03531
25-01767	25-01890	25-02024	25-02429	25-02540
24-01256	24-01278	24-01258	24-01199	24-01027
23-02287	23-02493	23-02953	23-03195	23-03436
22-00303	22-00234	22-00149	22-00107	22-00338
21-03802	21-04226	21-05299	21-05568	21-06771
20-00005	20-00006	20-00005	20-00005	20-00006
19-00013	19-00013	19-00013	19-00013	19-00013
18-00016	18-00016	18-00016	18-00016	18-00016
17-00015	17-00015	17-00015	17-00015	17-00015
16-00018	16-00018	16-00018	16-00018	16-00018
15-00033	15-00037	15-00055	15-00055	15-00099
14-00037	14-00041	14-00054	14-00067	14-00089
13-00022	13-00026	13-00031	13-00035	13-00044
12-00063	12-00071	12-00098	12-00123	12-00175
11-00031	11-00038	11-00056	11-00078	11-00122
10-00022	10-00025	10-00031	10-00053	10-00083
09-00024	09-00026	09-00033	09-00049	09-00068
08-00010	08-00010	08-00014	08-00014	08-00020
07-00038	07-00046	07-00052	07-00082	07-00122
06-00038	06-00042	06-00051	06-00082	06-00126
05-00006	05-00008	05-00012	05-00011	05-00006
04-00003	04-00003	04-00007	04-00016	04-00034
03-00017	03-00017	03-00022	03-00031	03-00057
02-00006	02-00007	02-00026	02-00018	02-00036
01-00003	01-00002	01-00009	01-00008	01-00025
01330300	01330590	01331290	01332200	01332490
01211780	01211780	01211780	01211780	01211780
170K	180K	200K	210K	220K

AD-A087 438

ROHR MARINE INC NATIONAL CITY CA
SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)
MAY 80

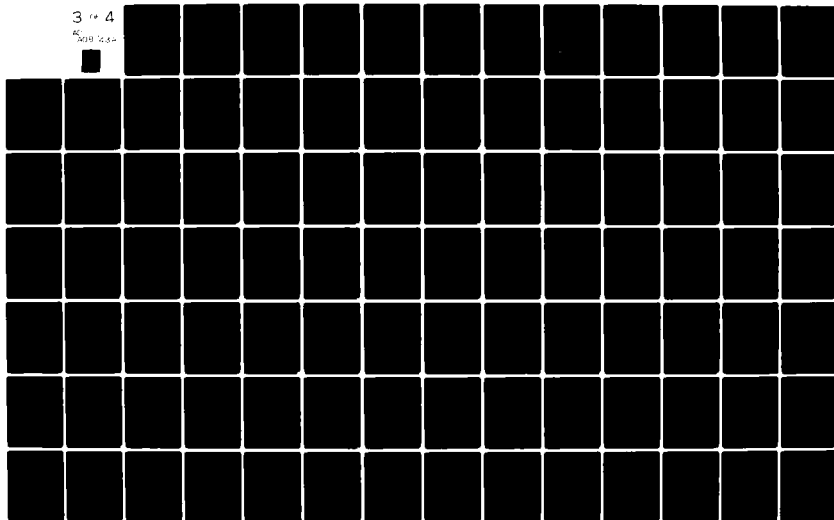
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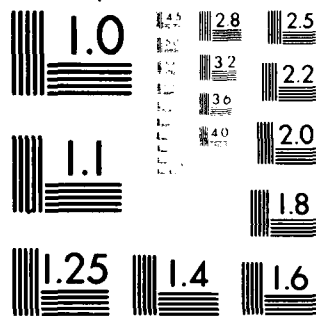
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UNCLASSIFIED

3 of 4

5010 5010





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

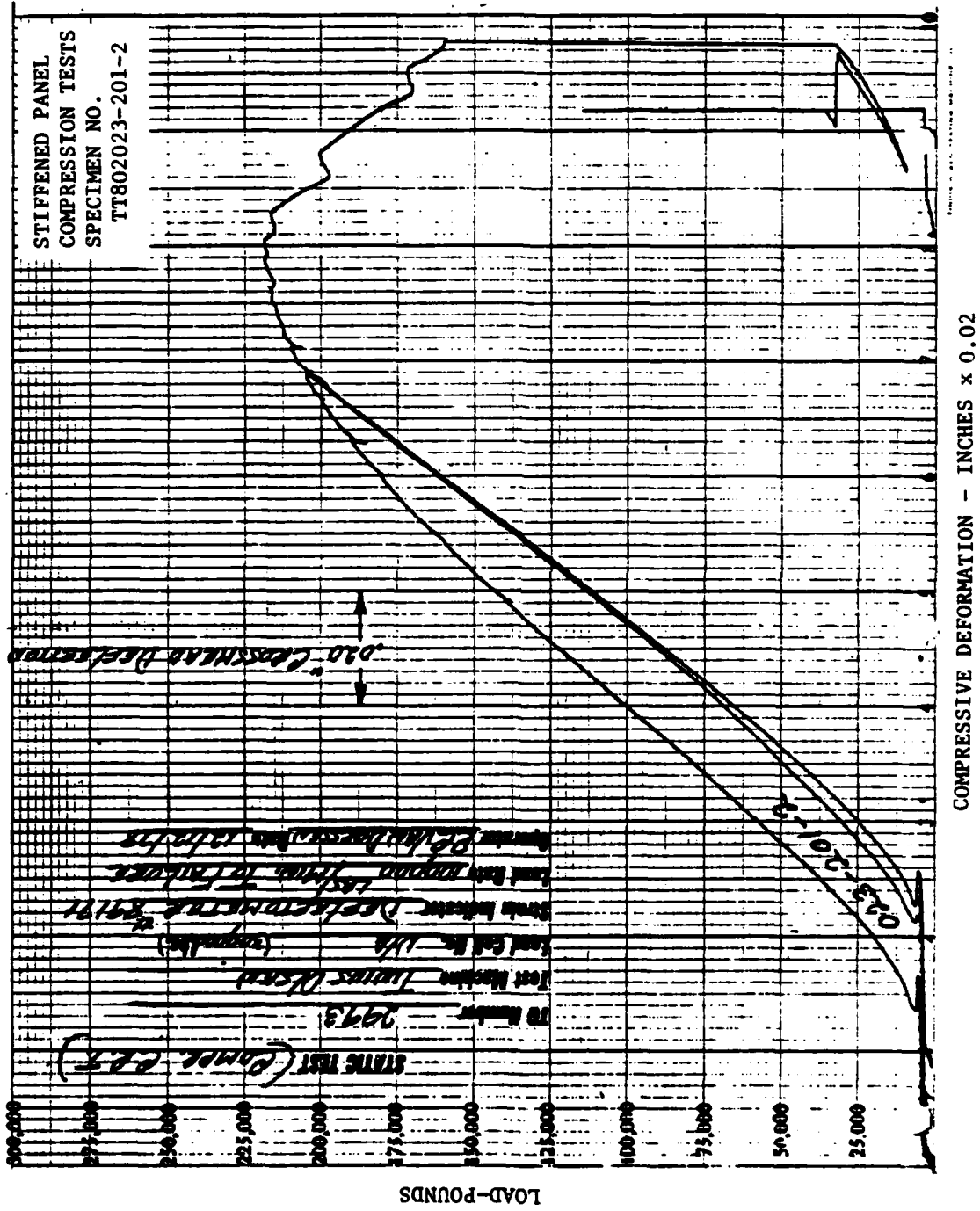
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SHEET 4 of 4

PANEL TT802023-201-1 12/13/78

34-14541	34-10616
33-03872	33-03087
32-01264	32-00022
31-03943	31-03461
30-19260	30-15973
29-00996	29-00352
28-00488	28-00781
27-03433	27-00445
26-02209	26-00999
25-03307	25-00029
24-00517	24-00273
23-02796	23-01041
22-00782	22-00756
21-05969	21-03005
20-00041	20-00099
19-00014	19-00015
18-00019	18-00020
17-00016	17-00018
16-00020	16-00020
15-00112	15-00073
14-00089	14-00054
13-00076	13-00071
12-00433	12-00727
11-00435	11-01001
10-00097	10-00074
09-00068	09-00059
08-00023	08-00034
07-00354	07-00643
06-00431	06-00653
05-00112	05-00600
04-00172	04-00644
03-00205	03-00651
02-00169	02-00638
01-00143	01-00628
0133050	0133020
0121180	0121180
222.25K	Post Buckling
	@ 0

TER073



SHEET 1 of 5

12/14/78

PANEL TT802023-201-2

34-00003	34-01420	34-00080	34-00013	34-00010	34-00340
33-00000	33-01421	33-00002	33-00000	33-00002	33-00021
32-00000	32-01419	32-00032	32-00005	32-00005	32-00184
31-00000	31-01420	31-00012	31-00003	31-00002	31-00070
30-00001	30-01418	30-00037	30-00005	30-00005	30-00255
29-00001	29-01420	29-00035	29-00003	29-00003	29-00200
28-00001	28-01422	28-00028	28-00001	28-00000	28-00160
27-00000	27-01421	27-00040	27-00003	27-00002	27-00206
26-00000	26-01420	26-00044	26-00007	26-00007	26-00222
25-00000	25-01421	25-00030	25-00000	25-00001	25-00191
24-00001	24-01419	24-00024	24-00001	24-00002	24-00156
23-00001	23-01417	23-00043	23-00004	23-00005	23-00233
22-00001	22-01419	22-00011	22-00000	22-00000	22-00167
21-00000	21-01418	21-00059	21-00006	21-00007	21-00307
20-00001	20-00073	20-00003	20-00000	20-00009	20-00003
19-00001	19-00001	19-00009	19-00000	19-00000	19-00001
18-00001	18-00005	18-00005	18-00004	18-00005	18-00004
17-00001	17-00003	17-00001	17-00002	17-00002	17-00003
16-00001	16-00000	16-00009	16-00004	16-00005	16-00006
15-00195	15-00195	15-00001	15-00001	15-00001	15-00001
14-00104	14-00104	14-00001	14-00001	14-00001	14-00001
13-00094	13-00094	13-00001	13-00000	13-00000	13-00000
12-00111	12-00112	12-00000	12-00000	12-00000	12-00000
11-00152	11-00151	11-00000	11-00000	11-00000	11-00000
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09-00202	09-00203	09-00000	09-00000	09-00000	09-00000
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06-00071	06-00071	06-00000	06-00001	06-00000	06-00000
05-00098	05-00098	05-00000	05-00000	05-00000	05-00000
04-00088	04-00088	04-00001	04-00000	04-00001	04-00001
03-00097	03-00098	03-00000	03-00001	03-00000	03-00000
02-00102	02-00101	02-00000	02-00000	02-00000	02-00000
01-00010	01-00009	01-00001	01-00000	01-00000	01-00001
0098270	0098270	01005460	01006570	01008510	01009470
*1211780	*1211780	*1211780	*1211780	*1211780	*1211780
Strain Gage	Strain Gage	DEFL. IND.	Test Start	Test Start	20K
Zero Ref.	Zero Ref.	ZERO REF.	0	0 Recheck	
	R Cal	@ 5K			

SHEET 2 of 5

12/14/78

PANEL TT802023-201-2

34-00727	34-01101	34-01498	34-02012	34-03627	34-05224
33-00055	33-00091	33-00125	33-00094	33-00175	33-00436
32-00370	32-00564	32-00745	32-00922	32-01077	32-01224
31-00144	31-00224	31-00304	31-00365	31-00324	31-00169
30-00560	30-00475	30-01199	30-01554	30-01967	30-02496
29-00394	29-00577	29-00765	29-00944	29-01126	29-01294
28-00325	28-00481	28-00624	28-00753	28-00851	28-00914
27-00424	27-00444	27-00464	27-01080	27-01245	27-01441
26-00461	26-00704	26-00954	26-01220	26-01513	26-01444
25-00405	25-00411	25-00425	25-01041	25-01265	25-01447
24-00321	24-00474	24-00624	24-00760	24-00879	24-00971
23-00474	23-00722	23-00984	23-01272	23-01574	23-01494
22-00144	22-00230	22-00284	22-00292	22-00244	22-00162
21-00435	21-00444	21-01307	21-01794	21-02404	21-03090
20-00404	20-00404	20-00404	20-00404	20-00404	20-00404
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12-00003	12-00004	12-00012	12-00017	12-00023	12-00030
11-00000	11-00000	11-00004	11-00007	11-00012	11-00015
10-00000	10-00004	10-00004	10-00009	10-00011	10-00017
09-00000	09-00007	09-00009	09-00013	09-00014	09-00026
08-00009	08-00009	08-00009	08-00014	08-00015	08-00014
07-00012	07-00012	07-00017	07-00024	07-00030	07-00034
06-00009	06-00009	06-00014	06-00017	06-00022	06-00024
05-00002	05-00002	05-00002	05-00001	05-00001	05-00001
04-00005	04-00005	04-00006	04-00010	04-00009	04-00009
03-00004	03-00004	03-00014	03-00014	03-00020	03-00023
02-00005	02-00005	02-00005	02-00007	02-00010	02-00010
01-00001	01-00001	01-00000	01-00001	01-00000	01-00001
0101020	0101020	0101100	01011570	01012340	01012500
01211780	01211780	01211780	01211780	01211780	01211780
40K	60K	80K	100K	120K	140K

SHEET 3 of 5

12/14/78

PANEL TT802023-201-2

34-07386	34-12613	34-13383	34-15A26	34-17282
33+00830	33+01947	33+02154	33+02613	33+03058
32-01366	32-01450	32-01584	31+01003	32-01600
31-00041	31+00562	31+00676	30-09054	31+01310
30-03954	30-06882	30-07411	29-01603	30-10257
29-01472	29-01736	29-01782	28-00A05	29-01A31
28-00938	28-00A77	28-00A51	27-02224	28-00743
27-01681	27-02050	27-02127	26-03127	27-02351
26-02220	26-02647	26-02491	25-02324	26-03253
25-01721	25-02129	25-02710	24-00989	25-02455
24-01037	24-01034	24-01023	23-03000	24-00940
23-02237	23-02799	23-02890	22+00313	23-03102
22-00034	22+00211	22+00258	21-05630	22+00406
21-03A62	21-05174	21-05386	20-00004	21-06020
20-00005	20-00003	20-00002	19-00004	20-06003
19-00014	19-00010	19-00018	18-00010	19-00010
18-00014	18-00015	18-00014	17-00014	18-00019
17-00012	17-00012	17-00013	16-00014	16-00014
16-00015	16-00015	16-00015	15-00060	15-00069
15+00029	15+00047	15+00052	14+00069	14+00078
14+00039	14+00061	14+00065	13+00026	13+00025
13+00017	13+00022	13+00021	12+00084	12+00096
12+00044	12+00070	12+00075	11+00057	11+00065
11+00026	11+00046	11+00050	10+00052	10+00061
10+00027	10+00035	10+00044	09+00064	09+00074
09+00035	09+00053	09+00054	08+00035	08+00039
08+00024	08+00032	08+00036	07+00092	07+00101
07+00052	07+00066	07+00079	06+00074	06+00083
06+00039	06+00052	06+00062	05-00007	05-00006
05-00003	05-00003	05-00003	04+00016	04+00017
04+00009	04+00013	04+00013	03+00034	03+00042
03+00025	03+00029	03+00034	02+00022	02+00022
02+00014	02+00014	02+00014	01-00004	01-00002
01-00002	01-00004	01-00004	01014320	01016560
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*1211780	*1211780	*1211780		

205K

200K

195K

190K

180K

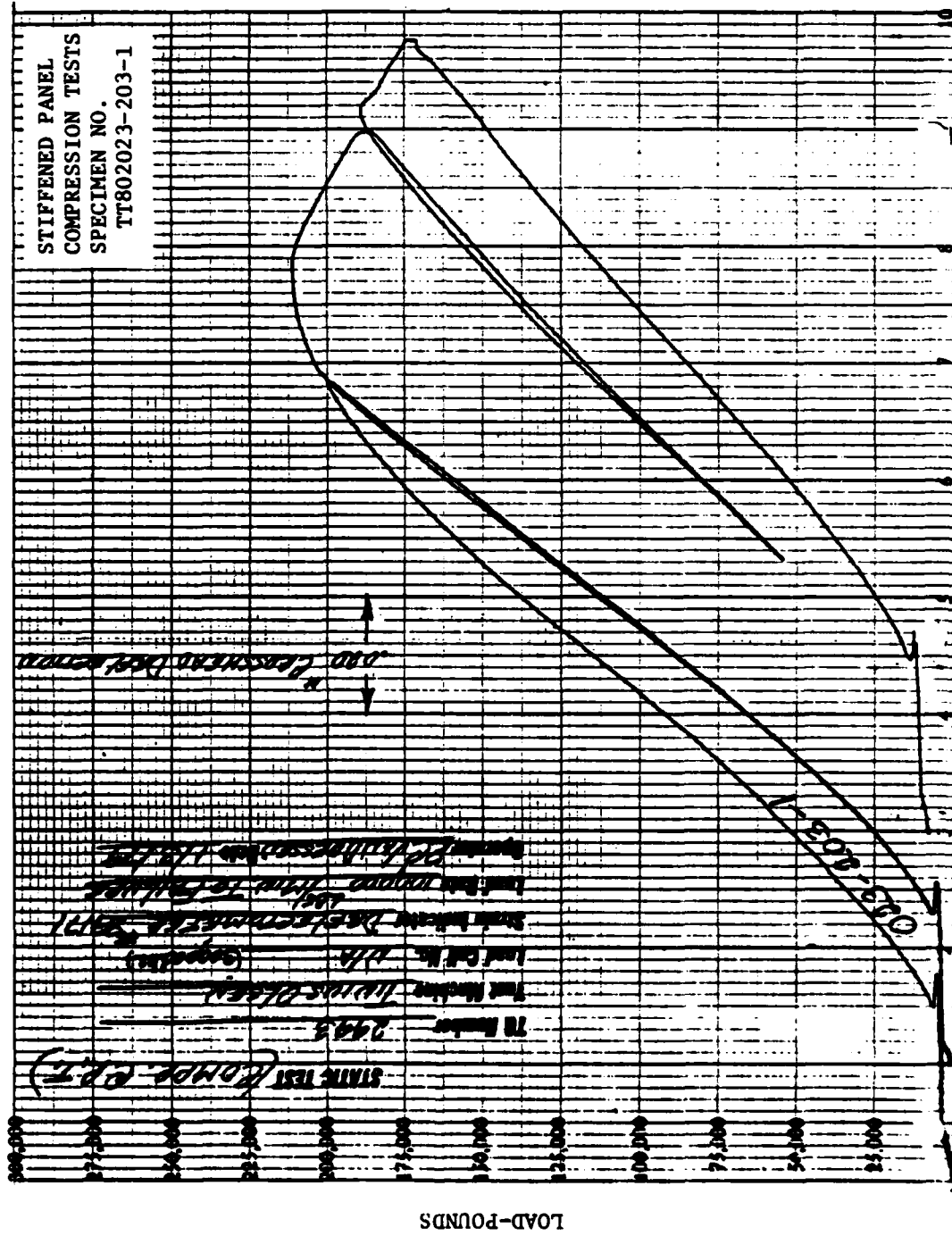
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Perma Set Check
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PANEL TT802023-201-2 12/14/78 SHEET 5 of 5

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32-00409	32-00383
31-00491	31-04320
30-19763	30-16988
29-00729	29-00084
28-00201	28-00662
27-03308	27-00418
26-02145	26-01077
25-03231	25-00438
24-00336	24-00508
23-01459	23-00854
22-01137	22-00896
21-04781	21-03107
20-00020	20-00020
19-00013	19-00013
18-00013	18-00013
17-00013	17-00013
16-00013	16-00013
15-00114	15-00087
14-00046	14-00074
13-00031	13-00070
12-00045	12-00597
11-00935	11-00854
10-00106	10-00085
09-00047	09-00080
08-00050	08-00058
07-00022	07-00578
06-00963	06-00803
05-00595	05-00844
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03-00596	03-00509
01-00415	02-00492
01028160	01-00459
01211780	01025110
Post Buckling	01211780
@ 115K	Post Buckling
	@ 0



COMPRESSION TESTS - INCHES x 0.02

SHEET 1 of 4

1/3/79

PANEL TT802023-203-1

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33-00000	33-00004	33-00237	33-00512	33-00421
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31-00001	31-00013	31-00035	31-00066	31-00099
30-00000	30-00007	30-00312	30-00580	30-00838
29-00001	29-00032	29-00213	29-00442	29-00666
28-00000	28-00001	28-00243	28-00533	28-00651
27-00001	27-00000	27-00092	27-00195	27-00295
26-00001	26-00006	26-00174	26-00359	26-00549
25-00001	25-00018	25-00097	25-00179	25-00244
24-00000	24-00003	24-00335	24-00477	24-01020
23-00001	23-00005	23-00207	23-00414	23-00616
22-00000	22-00004	22-00213	22-00441	22-00674
21-00001	21-00004	21-00166	21-00337	21-00500
20-00000	20-00004	20-00026	20-00426	20-00627
19-00000	19-00005	19-00005	19-00005	19-00004
18-00000	18-00004	18-00004	18-00004	18-00004
17-00000	17-00004	17-00007	17-00007	17-00006
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14-00001	14-00001	14-00003	14-00014	14-00023
13-00000	13-00004	13-00013	13-00031	13-00054
12-00002	12-00000	12-00010	12-00027	12-00044
11-00001	11-00000	11-00009	11-00017	11-00029
10-00000	10-00000	10-00000	10-00005	10-00009
09-00001	09-00000	09-00012	09-00025	09-00038
08-00001	08-00000	08-00010	08-00024	08-00041
07-00001	07-00002	07-00007	07-00001	07-00006
06-00000	06-00001	06-00007	06-00010	06-00018
05-00001	05-00006	05-00005	05-00010	05-00019
04-00001	04-00008	04-00005	04-00009	04-00015
03-00001	03-00010	03-00004	03-00017	03-00031
02-00001	02-00010	02-00004	02-00012	02-00025
01-00000	01-00009	01-00001	01-00002	01-00000
0112050	0112130	0112246	0112316	0112340
0103790	0103790	0103790	0103790	0103790
5K	5K	20K	40K	60K
Strain Gage	DEFL. IND.			
Zero Ref.	ZERO REF.			
	@5K			

SHEET 2 of 4

1/3/79

PANEL TT802023-203-1

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32-00648	32-00920	32-01042	32-01154	32-01284
31-00125	31-00073	31+00084	31+00358	31+00633
30-01115	30-01125	30-02080	30-02569	30-03364
29-00885	29-01092	29-01517	29-01759	29-02026
28-01188	28-01533	28-02292	28-02739	28-03294
27-00380	27-00445	27-00487	27-00438	27-00315
26-00740	26-00932	26-01132	26-01591	26-01857
25-00293	25-00321	25-00318	25-00195	25-00650
24-01371	24-01728	24-02090	24-02686	24-03349
23-00818	23-01023	23-01243	23-01772	23-02095
22-00908	22-01145	22-01236	22-01684	22-01904
21-00668	21-00834	21-01073	21-01704	21-01995
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11-00081	11-00051	11-00062	11-00097	11-00119
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09-00052	09-00070	09-00092	09-00158	09-00212
08-00059	08-00081	08-00108	08-00187	08-00250
07-00013	07-00021	07-00032	07-00076	07-00107
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05-00028	05-00040	05-00055	05-00072	05-00131
04-00023	04-00026	04-00035	04-00044	04-00084
03-00044	03-00057	03-00075	03-00120	03-00159
02-00034	02-00043	02-00054	02-00083	02-00109
01-00000	01-00004	01-00009	01-00036	01-00059
01124120	01124400	01125050	01126130	01126510
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80K	100K	140K	160K	180K

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PANEL TT802023-203-1

34-03285	34-04229	34-03537	34-04259	34-05521	34-06002
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32-01272	32-01279	32-01866	32-01273	32-01230	32-01236
31-01213	31-01747	31-02470	31-01736	31-02720	31-04188
30-04096	30-05128	30-03419	30-05149	30-06542	30-09824
29-02169	29-02318	29-00206	29-02333	29-02405	29-02018
28-03685	28-04330	28-00279	28-04365	28-06513	28-12354
27-00201	27-00008	27-00097	27-00020	27-00608	27-03656
26-02005	26-02163	26-00370	26-02168	26-02342	26-02368
25-00057	25-00205	25-00152	25-00208	25-00510	25-00704
24-03633	24-03995	24-00066	24-04002	24-04737	24-05498
23-02280	23-02489	23-00547	23-02497	23-02752	23-02790
22-02035	22-02185	22-00061	22-02194	22-02362	22-02377
21-02120	21-02223	21-01019	21-02221	21-02149	21-01663
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19-00005	19-00005	19-00004	19-00004	19-00004	19-00005
18-00006	18-00007	18-00009	18-00007	18-00009	18-00007
17-00008	17-00008	17-00008	17-00008	17-00008	17-00008
16-00006	16-00006	16-00006	16-00006	16-00006	16-00006
15-00006	15-00010	15-00001	15-00010	15-00011	15-00002
14-00186	14-00225	14-00052	14-00230	14-00302	14-00319
13-00362	13-00438	13-00067	13-00443	13-00112	13-00031
12-00278	12-00333	12-00067	12-00335	12-00441	12-00535
11-00136	11-00158	11-00046	11-00160	11-00197	11-00214
10-00080	10-00098	10-00032	10-00098	10-00134	10-00170
09-00247	09-00300	09-00060	09-00300	09-00404	09-00504
08-00297	08-00361	08-00054	08-00361	08-00496	08-00631
07-00138	07-00173	07-00034	07-00173	07-00276	07-00392
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05-00147	05-00174	05-00041	05-00178	05-00032	05-00020
04-00106	04-00140	04-00015	04-00141	04-00223	04-00361
03-00186	03-00226	03-00041	03-00230	03-00318	03-00413
02-00127	02-00158	02-00022	02-00159	02-00229	02-00309
01-00073	01-00092	01-00020	01-00092	01-00129	01-00156
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Perm. Set Check
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190K

200K

200K

210K

211K

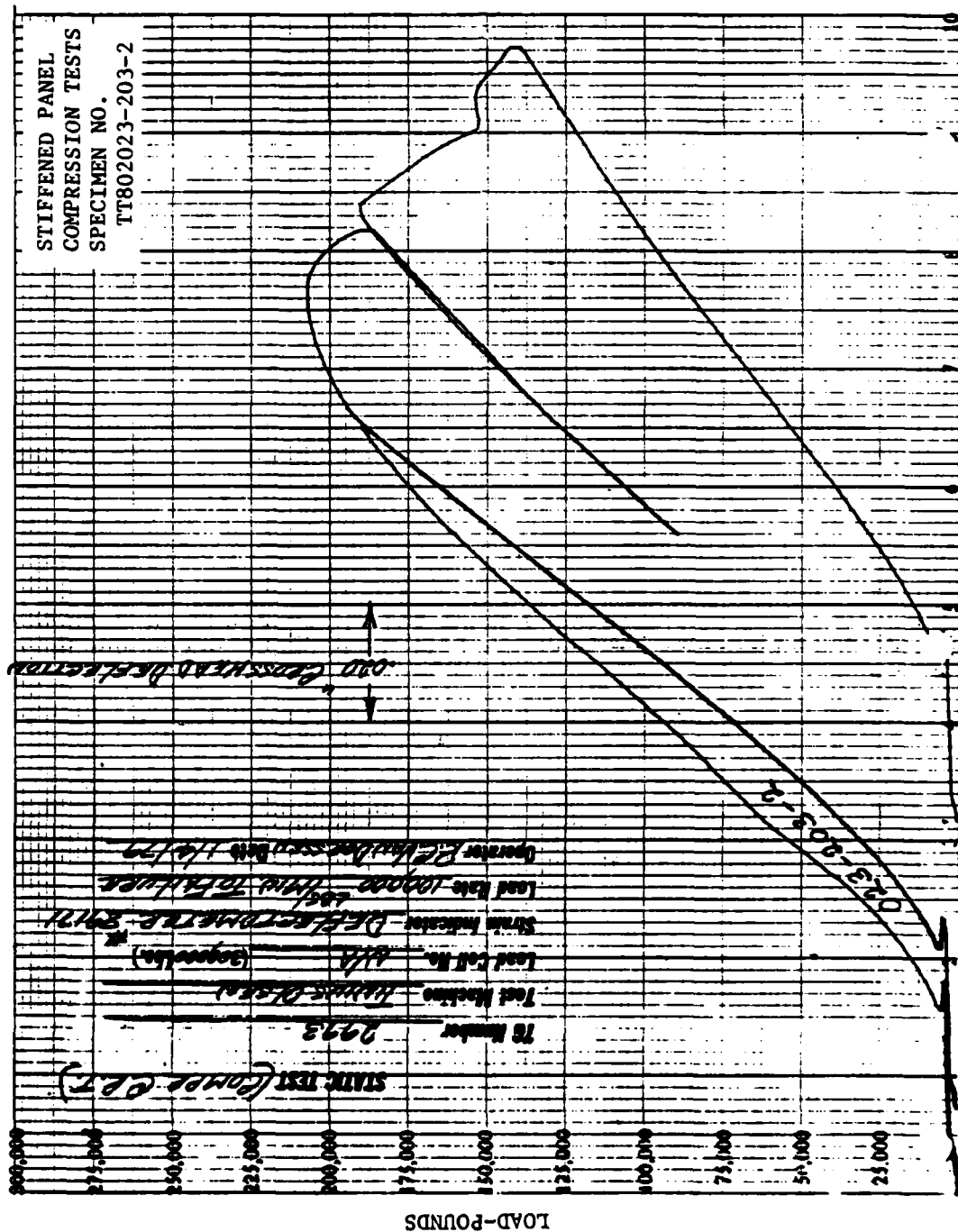
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PANEL TT802023-203-1

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31-06834	31-07766	
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29-00772	29-00607	
28-00600	28-24249	
27-02079	27-01587	
26-01607	26-00552	
25-00034	25-00036	
24-05131	24-00468	
23-02492	23-00836	
22-02037	22-00553	
21-00506	21-00786	
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17-00007	17-00067	
16-00009	16-00006	
15-00020	15-00043	
14-00252	14-00053	
13-01286	13-00759	
12-00626	12-00288	
11-00227	11-00114	
10-00259	10-00202	
09-00695	09-00372	
08-00915	08-00429	
07-00782	07-00483	
06-00057	06-00052	
05-00139	05-00009	
04-00795	04-00027	
03-00644	03-00329	
02-00546	02-00224	
01-00160	01-00093	
00135100	001364301	
00103790	001037901	
Post Buckling	Post Buckling	
@ 188.5K	@ 0	



COMPRESSIVE DEFORMATION - INCHES x 0.02

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PANEL TT802023-203-2

Strain Gage Zero Ref.	Strain Gage R Cal	DEFL. IND. ZERO REF. @ 5K	Test Start 0	20K	40K	60K
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33+00000	33+00049	33+00009	33+00213	33+00447	33+00700	
32+00001	32+00033	32+00008	32+00181	32+00358	32+00517	
31+00001	31+00020	31+00006	31+00083	31+00160	31+00286	
30+00000	30+00050	30+00009	30+00277	30+00548	30+00794	
29+00000	29+00047	29+00011	29+00230	29+00463	29+00686	
28+00000	28+00062	28+00006	28+00284	28+00579	28+00897	
27+00001	27+00031	27+00008	27+00101	27+00177	27+00245	
26+00002	26+00027	26+00006	26+00159	26+00340	26+00527	
25+00000	25+00013	25+00005	25+00087	25+00177	25+00250	
24+00001	24+00056	24+00010	24+00321	24+00678	24+01044	
23+00000	23+00060	23+00015	23+00234	23+00445	23+00650	
22+00001	22+00047	22+00008	22+00229	22+00470	22+00716	
21+00000	21+00034	21+00008	21+00153	21+00300	21+00440	
00902550	20+00033	20+00027	20+00027	20+00027	20+00027	
0104790	19+00003	19+00004	19+00004	19+00003	19+00003	
	18+00007	18+00008	18+00009	18+00009	18+00009	
	17+00005	17+00005	17+00004	17+00006	17+00004	
	16+00007	16+00007	16+00007	16+00008	16+00004	
	15+00001	15+00000	15+00001	15+00000	15+00000	
	14+00001	14+00001	14+00006	14+00019	14+00032	
	13+00000	13+00001	13+00013	13+00034	13+00063	
	12+00000	12+00000	12+00010	12+00027	12+00048	
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	10+00000	10+00003	10+00000	10+00002	10+00004	
	09+00000	09+00001	09+00010	09+00021	09+00029	
	08+00001	08+00005	08+00009	08+00022	08+00040	
	07+00000	07+00000	07+00006	07+00009	07+00013	
	06+00001	06+00000	06+00000	06+00002	06+00009	
	05+00000	05+00009	05+00005	05+00014	05+00027	
	04+00000	04+00013	04+00000	04+00005	04+00010	
	03+00000	03+00008	03+00009	03+00015	03+00027	
	02+00001	02+00013	02+00000	02+00006	02+00014	
	01+00000	01+00009	01+00001	01+00005	01+00005	
	00912290	00913400	00915100	00915370	00916090	
0104790	0104790	0104790	0104790	0104790	0104790	

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PANEL TT802023-203-2

80K	100K	120K	140K	160K	180K
34-00731	34-0099A	34-01473	34-02149	34-03032	34-0423A
33-00A72	33-0099A	33-01065	33-01107	33-0110A	33-01059
32-0066A	32-00902	32-00932	32-01055	32-01149	32-01277
31-00321	31-0038A	31-00825	31-00452	31-00416	31-00242
30-01081	30-01331	30-01R50	30-0256A	30-03550	30-04965
29-00904	29-01113	29-01330	29-01551	29-01781	29-02035
28-01235	2A-01574	2A-01936	28-02329	2A-02751	28-03284
27-0029A	27-00326	27-00321	27-00276	27-00172	27-00014
26-0071A	26-00905	26-0110A	26-01333	26-01584	26-01A65
25-00306	25-00340	25-0034A	25-00310	25-00219	25-00050
24-01424	24-01F10	24-02220	24-02670	24-03185	24-03A10
23-00850	23-01050	23-01262	23-01503	23-01775	23-020A7
22-00572	22-01245	22-01547	22-01A7A	22-02076	22-02346
21-00563	21-00A7A	21-00A00	21-00953	21-01133	21-01344
20-00024	20-00024	20-00024	20-00029	20-00024	20-00029
19-00003	19-00003	19-00003	19-00003	19-00003	19-00003
18-00004	18-00004	18-00004	18-00004	18-00004	18-00004
17-00005	17-00005	17-00005	17-00005	17-00005	17-00005
16-00004	16-00004	16-00004	16-00004	16-00004	16-00004
15-00001	15-00004	15-00005	15-00006	15-00011	15-00016
14-00045	14-00063	14-00081	14-00103	14-00133	14-00177
13-00094	13-00126	13-00161	13-00209	13-00267	13-00348
12-00073	12-00100	12-00127	12-00161	12-00205	12-00261
11-00033	11-0008A	11-00064	11-00076	11-00095	11-00116
10-00009	10-00014	10-00021	10-00026	10-00037	10-00052
09-00043	09-0005A	09-0007A	09-00099	09-00130	09-00174
08-0005A	08-00081	08-0010A	08-00143	08-0018A	08-00261
07-00023	07-00031	07-00042	07-0005A	07-00086	07-00124
06-00013	06-00022	06-00027	06-00032	06-00036	06-00037
05-0003A	05-0004A	05-00063	05-00092	05-0010A	05-0013A
04-0001A	04-00027	04-00040	04-00052	04-00069	04-00099
03-00045	03-00062	03-00080	03-00101	03-00131	03-00172
02-00026	02-00040	02-00052	02-00066	02-00087	02-00113
01-00005	01-00005	01-00010	01-00020	01-00034	01-00062
00914370	00917120	00917520	0091A190	0091A480	00919180
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PANEL TT802023-203-2

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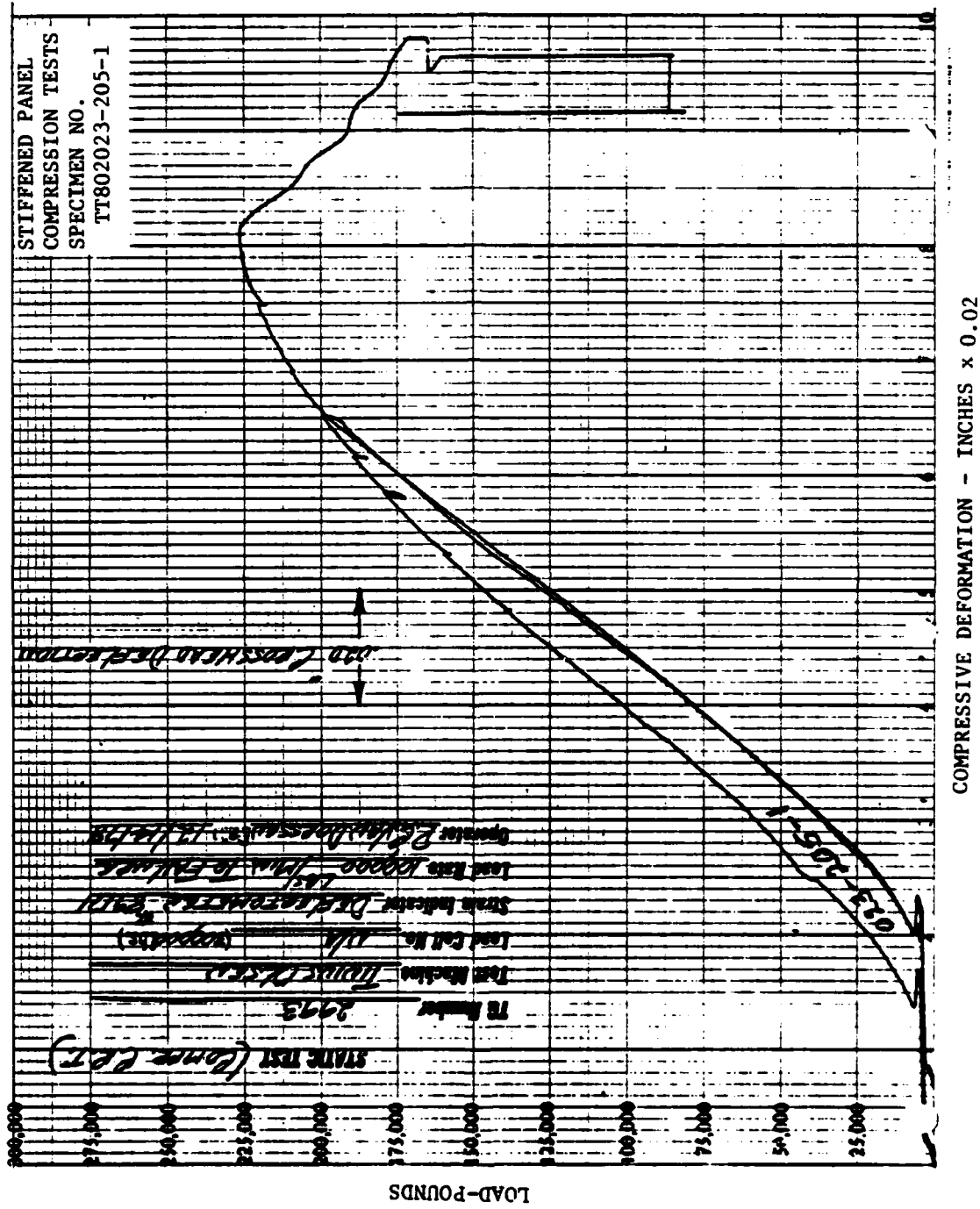
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PANEL TT802023-203-2

34-08130
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26-00063
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21-00242
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07-00225
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05-00049
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02-00512
01-00103
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001047901

Post Buckling
e
0



PANEL TT802023-205-1

Strain Gage Zero REF.	Strain Gage R Cal	DEFL. IND. ZERO REF.	Test Start 0	20K	40K
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32+00000	32+01420	32+00036	32+00005	32+00204	32+00410
31+00001	31+0141A	31+0004A	31+00003	31+00233	31+00453
30+00000	30+01418	30+00015	30+00003	30+00115	30+00260
29+00001	29+0141A	29+00035	29+00005	29+00194	29+00389
28+00000	28+01421	28+0004A	28+00001	28+00251	28+0053A
27+00001	27+01420	27+00016	27+00000	27+00082	27+00167
26+00000	26+01419	26+00037	26+00003	26+0019A	26+00403
25+00000	25+01420	25+0001A	25+00000	25+00096	25+00187
24+00001	24+01420	24+00047	24+00002	24+00287	24+00593
23+00003	23+0141A	23+00045	23+00009	23+00305	23+00410
22+00002	22+0141A	22+00040	22+00006	22+00205	22+00417
21+00002	21+0141A	21+00037	21+0000A	21+00180	21+00366
20+00003	20+0004A	20+00045	20+00000	20+00094	20+00260
19+00004	19+0005A	19+0005A	19+00001	19+00094	19+00260
18+00012	18+00012	18+00012	18+00012	18+00012	18+00012
17+00012	17+00012	17+00012	17+00012	17+00012	17+00012
16+00012	16+00012	16+00012	16+00012	16+00012	16+00012
15+00043	15+00043	15+00043	15+00043	15+00043	15+00043
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13+00072	13+00072	13+00072	13+00072	13+00072	13+00072
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11+00542	11+00542	11+00542	11+00542	11+00542	11+00542
10+00451	10+00451	10+00451	10+00451	10+00451	10+00451
09+00500	09+00500	09+00500	09+00500	09+00500	09+00500
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07+0059A	07+0059A	07+0059A	07+0059A	07+0059A	07+0059A
06+00657	06+00657	06+00657	06+00657	06+00657	06+00657
05+0050A	05+0050A	05+0050A	05+0050A	05+0050A	05+0050A
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02+000417	02+000417	02+000417	02+000417	02+000417	02+000417
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PANEL TT802023-205-1

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30-00407	30-0055A	30-00724	30-01137	30-01371
29-00583	29-0076A	29-01141	29-01319	29-01500
28-00432	28-01128	28-01435	28-02046	28-02364
27-00246	27-00310	27-00385	27-00381	27-00339
26-00411	26-00A20	26-0103A	26-01265	26-0178A
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12-00013	12-00025	12-00039	12-00057	12-00094
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60K	80K	100K	120K	140K
				160K

PANEL TT802023-205-1		12/14/78	SHEET 3 of 4
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30-01457	30-02092	30-01062	30-02882
29-01482	29-01444	29-00032	29-01937
28-02705	28-01771	28-01865	28-03388
27-00259	27-00203	27-00128	27-00027
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25-00253	25-00185	25-00114	25-00079
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22-01659	22-01709	22-00351	22-01794
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180K	190K	200K	210K
Perm. Set Check @ 0			

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PANEL TT802023-205-1

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23-02783
22-01846
21-02594
20-00604
19-00011
18-00016
17-00014
16-00014
15-00078
14-00323
13-00424
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220K

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30-05865
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23-02801
22-01942
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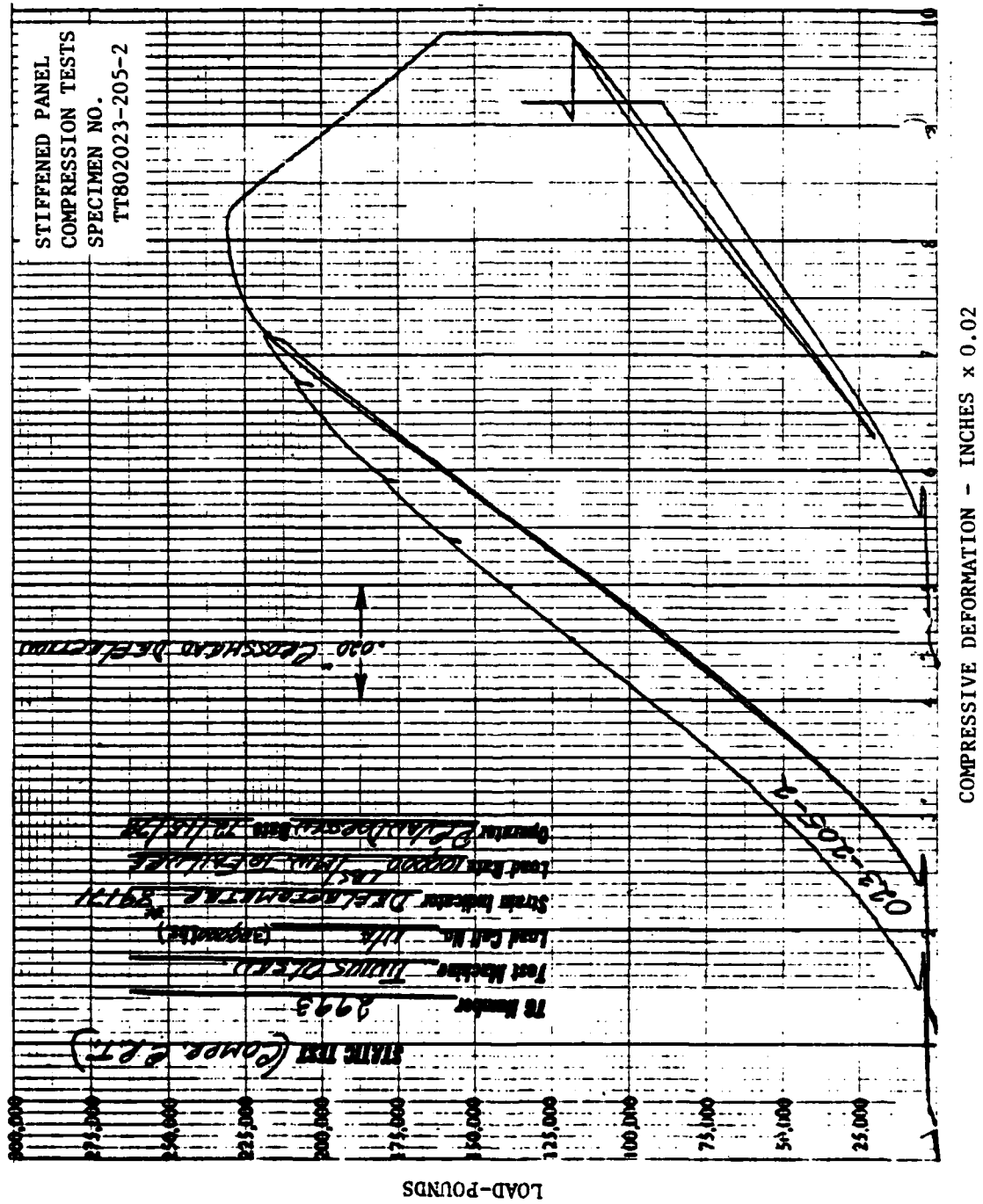
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12/14/73

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22-01607
21-02646
20-00010
19-00011
18-00016
17-00014
16-00014
15-00499
14-00600
13-01120
12-01155
11-00696
10-00134
09-00665
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Post-Buckling
@ 91K

Post-Buckling
@ 0



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PANEL TT802023-205-2

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0142420
01215780

Strain Gage
Zero Ref.

DEFL. IND.
ZERO REF.
@ 5K

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24-01414
23-01421
22-01419
21-01421
0142420
01215780

Strain Gage
R Cal

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32-00009
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27-00001
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24-00007
23-00014
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20-00002
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07-00001
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05-00003
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02-00001
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01215780

Test Start
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29-00170
28-00277
27-00140
26-00154
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14-00001
13-00000
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01215780

20K

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40K

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10-00003
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05-00000
04-00013
03-00023
02-00012
01-00013
0142420
01215780

60K

PANEL TT802023-205-2		12/15/78	Sheet 2 of 4
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33-0072A	33-00982	33-01050	33-0097A
32-01021	32-01408	32-01A05	32-01A4A
31-00792	31-00A27	31-00A06	31-00720
30-0098A	30-01495	30-01732	30-0203A
29-0090A	29-010A2	29-01420	29-01591
28-01481	28-01799	28-02136	28-02A43
27-005A4	27-00A56	27-00713	27-00A6A
26-0062A	26-01130	26-01609	26-01404
25-00316	25-00330	25-00249	25-00142
24-01562	24-01A9A	24-02591	24-02492
23-0109A	23-0132A	23-01851	23-02177
22-01077	22-01287	22-01462	22-01A79
21-00A9A	21-01153	21-01470	21-02119
20-00424	20-00024	20-00024	20-00024
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12-00026	12-00036	12-00053	12-00097
11-0000A	11-0000A	11-00003	11-00000
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09-00057	09-00072	09-00092	09-00150
08-000A6	08-00113	08-00145	08-00226
07-000A0	07-00074	07-00093	07-00141
06-00022	06-00027	06-00032	06-00040
05-00009	05-00017	05-00030	05-00062
04-00024	04-00027	04-00035	04-00053
03-00041	03-00054	03-00067	03-00107
02-00026	02-00034	02-00043	02-00065
01-00027	01-0003A	01-00050	01-0008A
01A37530	01A38510	01A39440	01A40570
01215780	01215780	01215780	01215780
80K	100K	120K	140K
			160K
			180K

Sheet 3 of 4

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PANEL TT802023-205-2

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31-00529	31-00380	31+02561	31-00073	31-00264
30-02664	30-03178	30-02063	30-08078	30-05434
29-01722	29-01774	29+00181	29-01755	24-01627
28-03304	28-03593	28-04017	28-04064	28-05191
27-00620	27-00570	27-00481	27-00479	27-00182
26-02225	26-02402	26-02591	26-02407	26-02624
25-00624	25+00148	25+00346	25+00376	25+01019
24-03479	24-03791	24-02307	24-04395	24-06104
23-02534	23-02731	23-02944	23-02968	23-03220
22-01747	22-01782	22+00397	22-01825	22-01911
21-02472	21-02434	21-02776	21-02788	21-02818
20-06623	20-06027	20-06624	20-00024	20-00624
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18-00001	18+00611	18+00011	18+00010	18+00011
17-00000	17+00604	17+00004	17+00009	17+00004
16-00000	16+00011	16+00011	16+00011	16+00011
15-00043	15+00050	15-00026	15+00066	15+00093
14-00174	14+00205	14+00051	14+00261	14+00357
13+00241	13+00287	13+00058	13+00354	13+00461
12+00133	12+00161	12+00044	12+00207	12+00263
11+00004	11+00011	11+00004	11+00021	11+00029
10+00038	10+00042	10+00023	10+00056	10+00077
09+00197	09+00230	09+00275	09+00280	09+00382
08+00288	08+00335	08+00397	08+00401	08+00532
07+00181	07+00213	07+00253	07+00253	07+00320
06+00051	06+00058	06+00070	06+00067	06+00084
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03+00138	03+00161	03+00153	03+00197	03+00268
02+00087	02+00105	02+00136	02+00141	02+00209
01+00120	01-00137	01-00160	01-00161	01-00207
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Perm. Set Check
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210K

200K

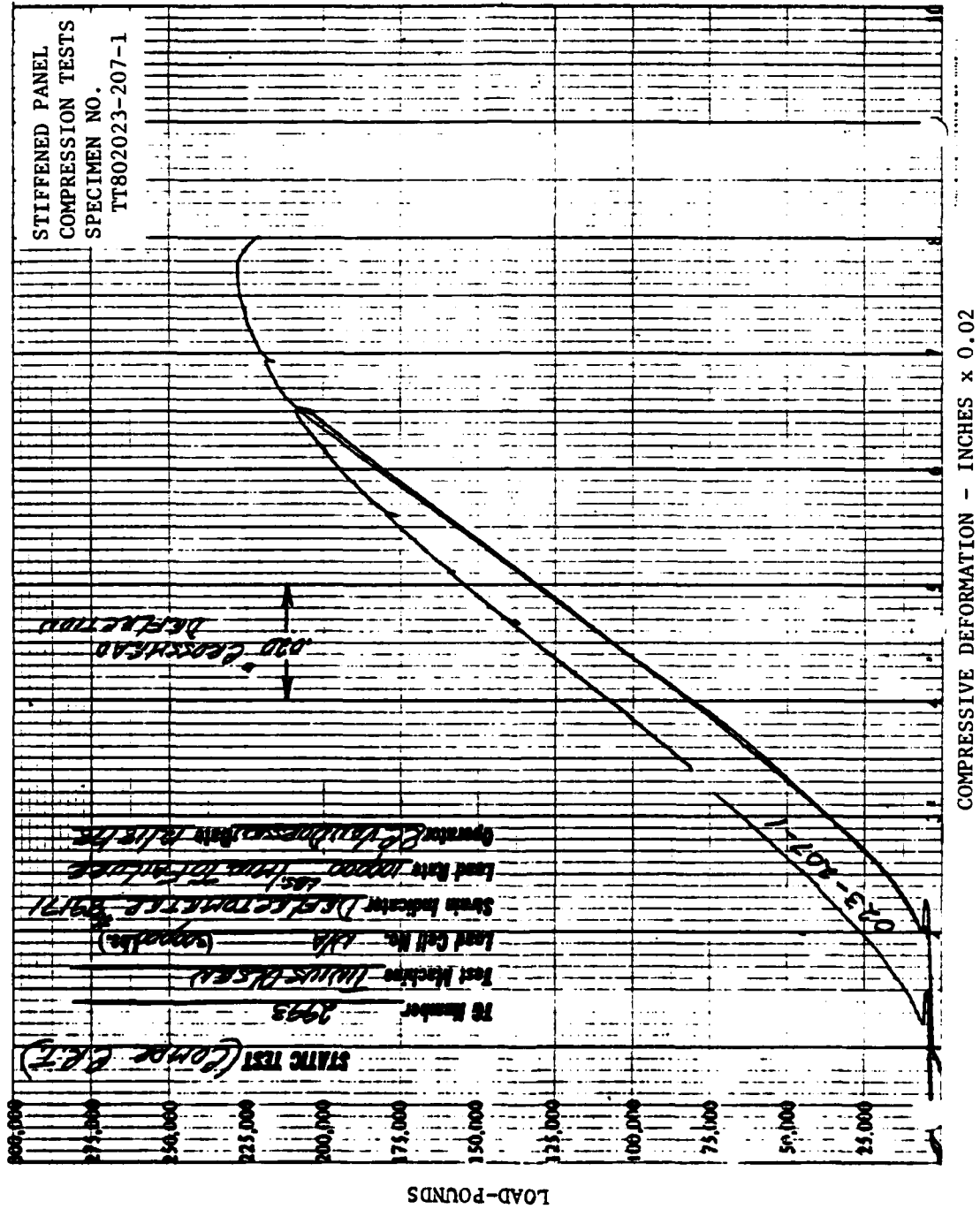
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230K

12/15/78

PANEL TT802023-205-2

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17-00000	17-00010	17-00010
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15-00126	15-00102	15-00072
14-00495	14-00431	14-00250
13-00679	13-01572	13-01135
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08-00711	08-01495	08-01057
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03-00362	03-00871	03-00519
02-00314	02-01250	02-00789
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*1215780	*1215780	*1215780
232K	Post Buckling @ 135.5K	Post Buckling @ 0



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PANEL TT802023-207-1

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27-00000	27-01419	27-00026	27-00001	27-00127	27-00272
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Strain Gage
Zero Ref.Strain Gage
R CalDEFL. IND.
ZERO REF.
@ 5KTest Start
0

20K

40K

Sheet 2 of 4

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PANEL TT802023-207-1

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29-00560	29-00765	29-00933	29-01104	29-01434
28-00630	28-01152	28-01472	28-01267	28-02551
27-00417	27-00557	27-00785	27-00870	27-00927
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17-00608	17-00708	17-00808	17-00908	17-00908
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60K				

Sheet 3 of 4

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PANEL TT802023-207-1

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180K

190K

200K

210K

210K

Perm. Set Check
@ 0

12/18/78

PANEL TT802023-207-1

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23-02637
22-01611
21-01530
20-00029
19-00106
18-00012
17-00010
16-00013
15-00102
14-00221
13-00379
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220K

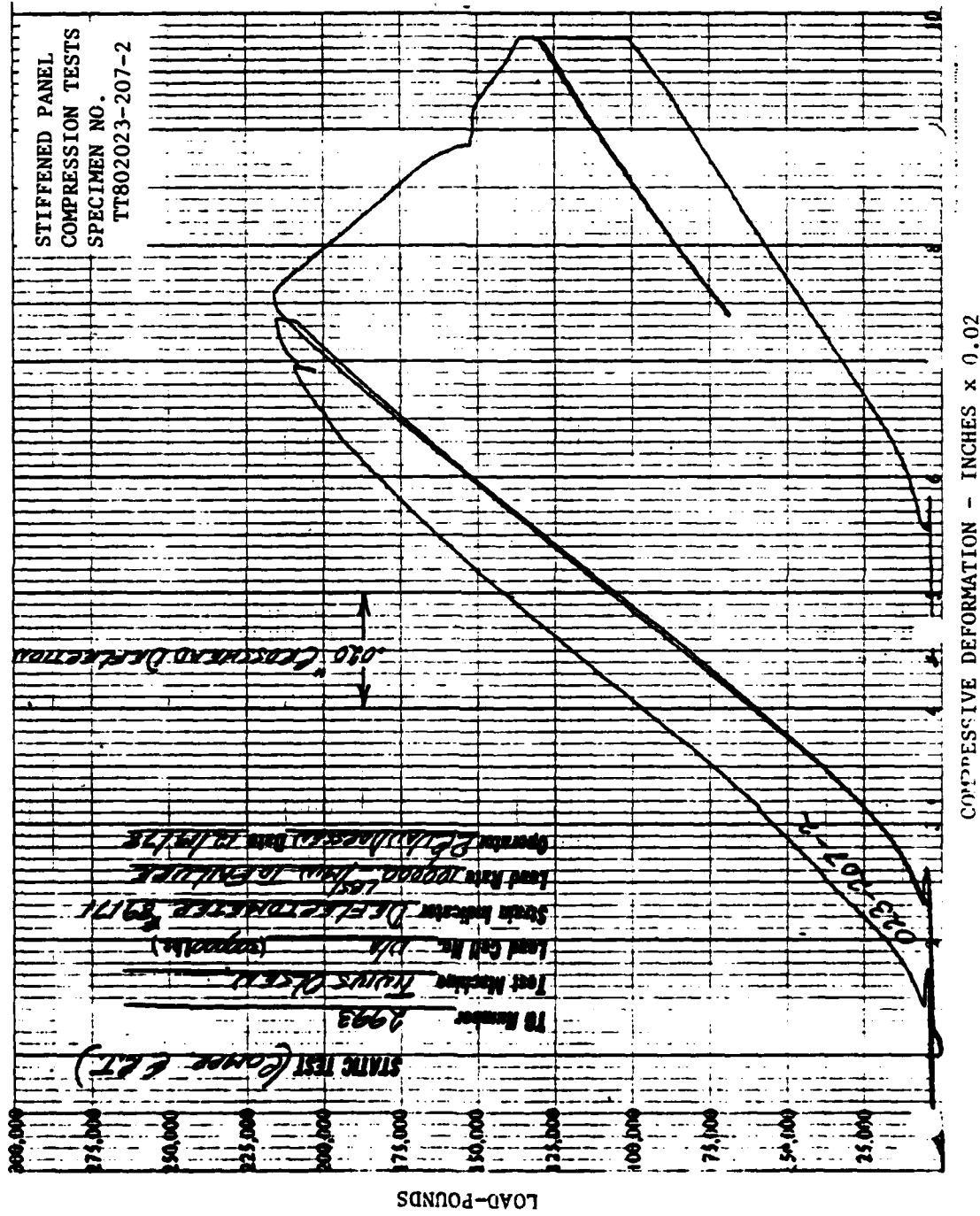
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*1218780

Post-Buckling
@ 0

228.75K
(BUCKLING
LOAD)

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30-01390
29-00379
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24-04350
23-02219
22-01261
21-00450
20-00024
19-00007
18-00012
17-00009
16-00013
15-00072
14-00152
13-01439
12-00434
11-00079
10-00272
09-00781
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07-01060
06-00376
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01-00188
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171.25K
(POST BUCKLING LOAD)



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PANEL TT802023-207-2

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27-00001	27-01428	27-00023	27-00000	27-00117	27-00213
26-00001	26-01427	26-00037	26-00005	26-00180	26-00378
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23-00001	23-01428	23-00041	23-00005	23-00208	23-00414
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01-00464	01-01074	01-00001	01-00009	01-00004	01-00007
01302450	01302500	01309480	01311320	01312300	01312560
*1219780	*1219780	*1219780	*1219780	*1219780	*1219780

Strain Gage
Zero Ref.Strain Gage
R CalDEFL. IND.
ZERO REF.Test Start
0

20K

40K

Sheet 2 of 4

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PANEL TT802023-207-2

34-00740	34-01192	34-01426	34-01690	34-01971
33-00432	33-00752	33-00897	33-00996	33-01040
32-00537	32-00902	32-01077	32-01246	32-01410
31-00633	31-00912	31-01299	31-01411	31-01486
30-00690	30-00677	30-00629	30-00953	30-01192
29-00620	29-01015	29-01206	29-01396	29-01579
28-00971	28-01673	28-02043	28-02435	28-02662
27-00292	27-00356	27-00409	27-00390	27-00326
26-00572	26-00777	26-01193	26-01420	26-01666
25-00192	25-00740	25-00265	25-00221	25-00131
24-00730	24-01662	24-02047	24-02446	24-02886
23-00611	23-01066	23-01217	23-01440	23-01687
22-00607	22-00844	22-01304	22-01458	22-01548
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00-00607	00-00607	00-00607	00-00607	00-00607
60K	80K	120K	140K	160K

PANEL TT802023-207-2		12/19/78	Sheet 3 of 4
180K	190K	200K	210K
34-02306	34-02518	34-02844	34-03341
33-01040	33-01002	33-00931	33-00832
32-01584	32-01664	32-01743	32-01807
31-01617	31-01696	31-01793	31-01944
30-01424	30-01506	30-01663	30-01843
29-01777	29-01872	29-01970	29-02064
28-03403	28-03729	28-04175	28-04944
27-00194	27-00094	27-00046	27-00299
26-01957	26-02109	26-02281	26-02450
25-00035	25-00151	25-00345	25-00731
24-03439	24-03776	24-04317	24-05386
23-01976	23-02128	23-02301	23-02472
22-01604	22-01624	22-01626	22-01649
21-02230	21-02380	21-02550	21-02623
20-00024	20-00023	20-00023	20-00024
19-00006	19-00007	19-00007	19-00006
18-00011	18-00011	18-00012	18-00011
17-00009	17-00009	17-00009	17-00009
16-00011	16-00012	16-00012	16-00012
15-00030	15-00034	15-00039	15-00047
14-00152	14-00174	14-00205	14-00245
13-00258	13-00294	13-00346	13-00427
12-00158	12-00180	12-00217	12-00262
11-00008	11-00010	11-00013	11-00015
10-00012	10-00011	10-00016	10-00015
09-00012	09-00163	09-00191	09-00226
08-00273	08-00314	08-00368	08-00458
07-00175	07-00199	07-00233	07-00284
06-00022	06-00027	06-00031	06-00040
05-00094	05-00110	05-00130	05-00154
04-00084	04-00101	04-00123	04-00161
03-00139	03-00156	03-00183	03-00232
02-00080	02-00096	02-00115	02-00155
01-00086	01-00105	01-00123	01-00146
01316580	01317340	01317560	01318190
*1219780	*1219780	*1219780	*1219780
180K		200K	
190K		210K	
Post Buckling		Post Buckling	
0		0	
After 216.5K		After 216.5K	
217K		217K	

TER073

Sheet 4 of 4

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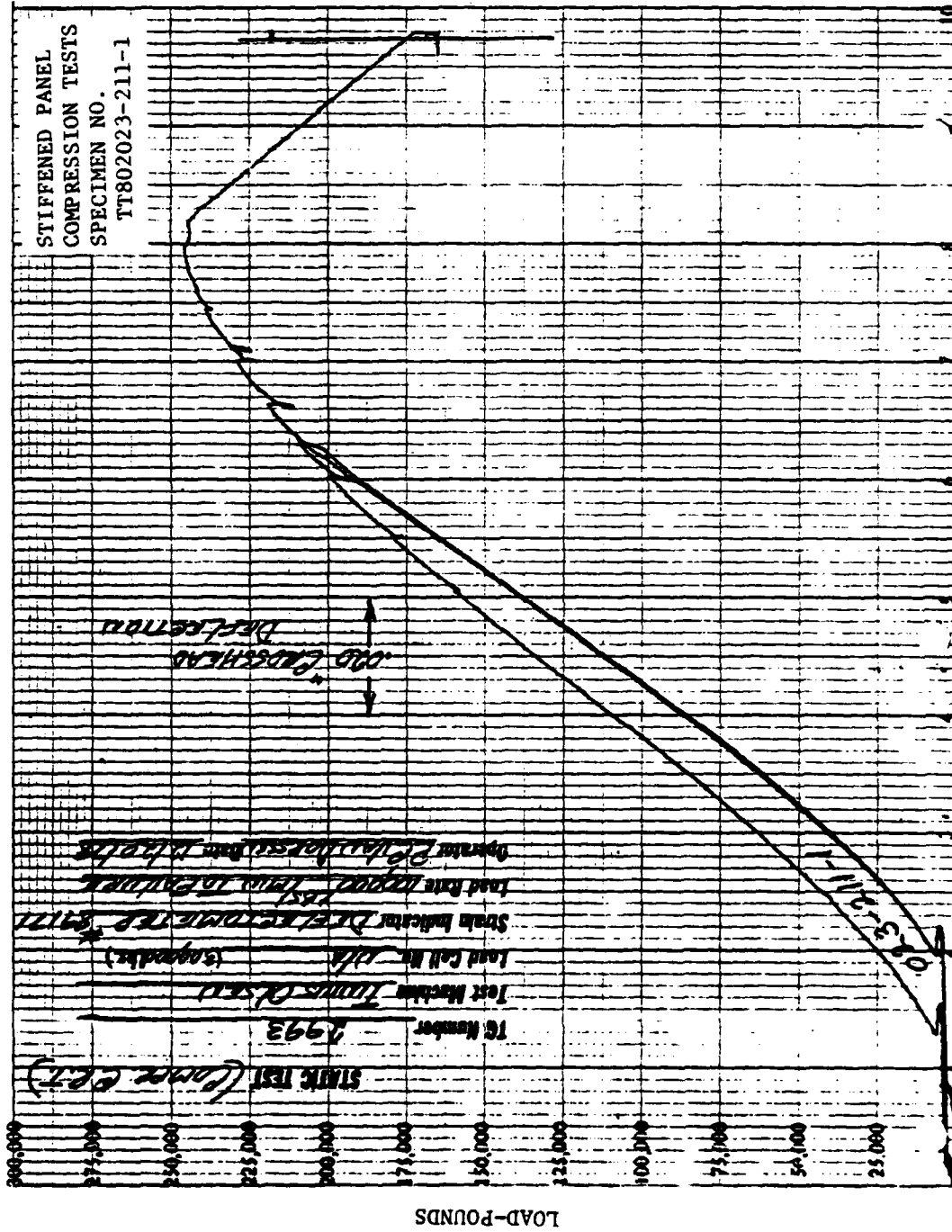
PANEL TT802023-207-2

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26-00664	26-00696
25-61617	25-02604
24-09368	24-21129
23-66227	23-00200
22-00702	22-01420
21-60126	21-01619
20-60006	20-00000
19-00009	19-00009
18-60013	18-00014
17-60011	17-00012
16-00014	16-00015
15-00017	15-00029
14-00054	14-00178
13-01075	13-01523
12-00194	12-00384
11-66665	11-00006
10-00002	10-00002
09-60075	09-00204
08-01090	08-01546
07-00206	07-00417
06-00023	06-00049
05-00249	05-00285
04-60765	04-01232
03-60491	03-00448
02-60732	02-01189
01-60287	01-00279
01326220	01325130
01219780	01219780

Post-Buckling
@ 0

Post Buckling
@

134.25K



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PANEL TT802023-211-1

34-000001	34+01429	34-000046	34-000001	34-00205	34-00449
33-000001	33+01428	33-000023	33-000001	33-00094	33-00183
32-000001	32+01427	32-000034	32-000002	32-00176	32-00356
31-000002	31+01429	31-000018	31-000005	31-00063	31-00120
30-000001	30+01429	30-000086	30-000013	30-00341	30-00634
29-000002	29+01428	29-000033	29-000008	29-00187	29-00387
28-000002	28+01425	28-000030	28-000000	28-00157	28-00334
27-000001	27+01428	27-000018	27-000008	27-00141	27-00332
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25-000000	25+01429	25-000039	25-000003	25-00209	25-00404
24-000000	24+01428	24-000038	24-000005	24-00215	24-00428
23-000000	23+01429	23-000040	23-000010	23-00193	23-00389
22-000001	22+01428	22-000039	22-000006	22-00192	22-00394
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19-000013	19-000049	19-000019	19-000011	19-000011	19-000011
18-000017	18-000014	18-000015	18-000015	18-000015	18-000016
17-000015	17-000012	17-000012	17-000013	17-000013	17-000013
16-000016	16-000016	16-000014	16-000016	16-000016	16-000015
15-000064	15-000061	15-000000	15-000000	15-000000	15-000001
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02-000255	02-000958	02-000000	02-000010	02-000002	02-000001
01-000471	01-001070	01-000001	01-000010	01-000002	01-000001
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01220780	01220780	01220780	01220780	01220780	01220780

40K

20K

Test Start
0DEFL. IND.
ZERO REF.
@ 5KStrain Gage
R CalStrain Gage
Zero Ref.

Sheet 2 of 4

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PANEL TT802023-211-1

34-00716	34-01007	34-01359	34-01793	34-02230	34-02685
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32-00538	32-00718	32-00689	32-01054	32-01220	32-01391
31-00177	31-00230	31-00269	31-00261	31-0216	31-00145
30-00525	30-01222	30-01549	30-01972	30-02557	30-03270
29-00581	29-00773	29-00957	29-01136	29-01317	29-01497
28-00512	28-00684	28-00641	28-00991	28-01135	28-01260
27-00532	27-00741	27-00933	27-01125	27-01368	27-01492
26-00591	26-00817	26-01045	26-01272	26-01509	26-01744
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24-00642	24-00844	24-01034	24-01217	24-01398	24-01562
23-00580	23-00772	23-00959	23-01141	23-01330	23-01527
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01-00602	01-00602	01-00602	01-00602	01-00602	01-00602
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01220780	01220780	01220780	01220780	01220780	01220780
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Sheet 3 of 4

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PANEL TT802023-211-1

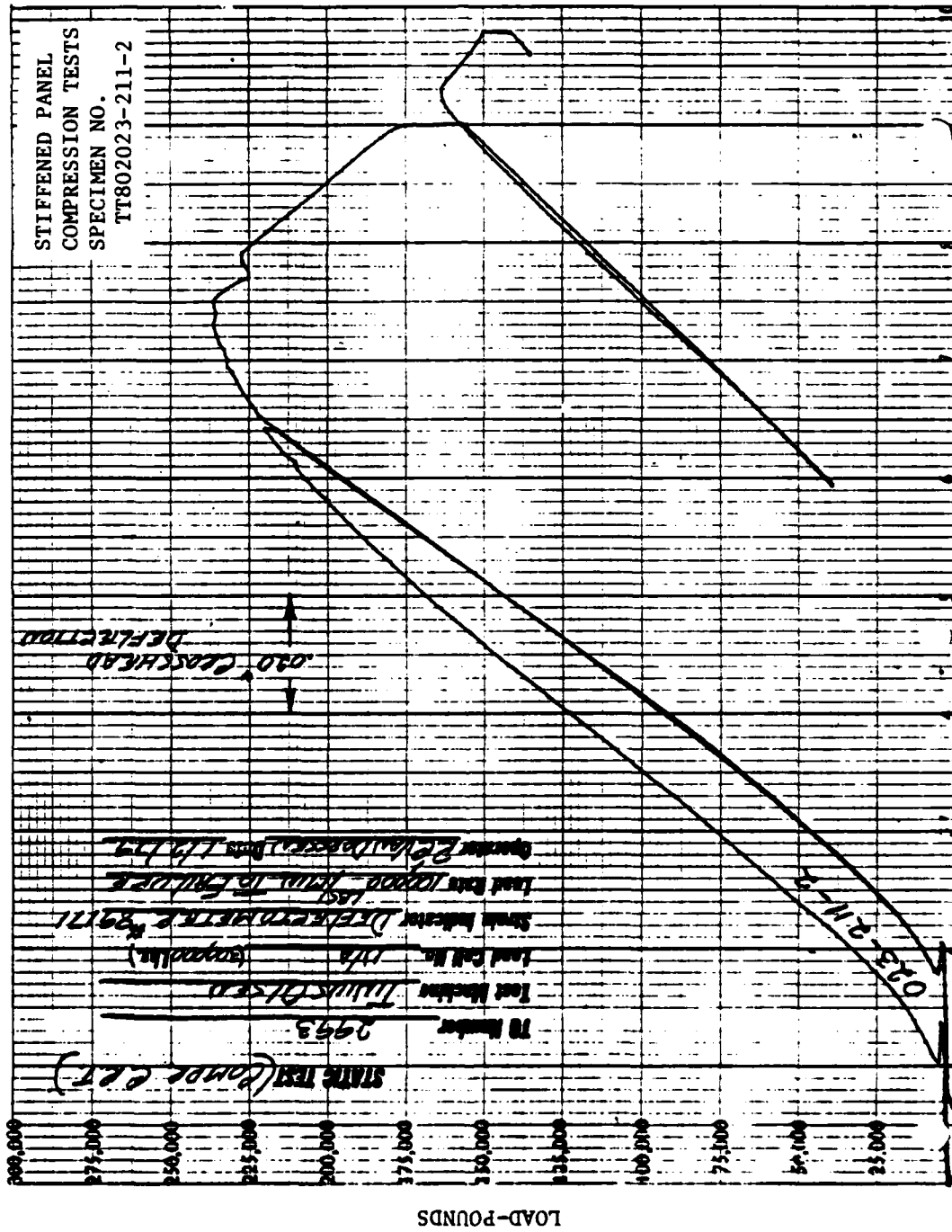
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02-00004	02-00004	02-00001	02-00010	02-00001	02-00003
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01441550	01443180	01444570	01446200	01445400	01450210
*1220780	*1220780	*1220780	*1220780	*1220780	*1220780
180K	200K	210K	Perm. Set Check @ 0	210K	220K

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PANEL TT802023-211-1

230K	240K	246.5K (Maximum Load)	Post-Buckling @ 105K	Post Buckling @ 0
34-07728	34-09951	34-13357	34-11324	34-13529
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32-02084	32-02216	32-05599	32-09799	32-09947
31-01094	31-01970	31-09914	31-08432	31-08506
30-09376	30-12536	30-22843	30-20152	30-14625
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28-01426	28-01318	28-00513	28-00244	28-00972
27-02272	27-02497	27-04295	27-03809	27-01332
26-02820	26-03060	26-02073	26-01676	26-00993
25-02119	25-02317	25-02563	25-02363	25-00295
24-01949	24-01917	24-00769	24-01078	24-00300
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11-00047	11-00047	11-00546	11-00689	11-00545
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01220780	01220780	01220780	01220780	01220780

TER073



COMPRESSIVE DEFORMATION - INCHES x 0.02

1/2/79

PANEL TT802023-211-2

Strain Gauge	60K	40K	20K	Test Start
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31-00000	31-00004	31-00029	31-00001	31-00004
30-00001	30-00703	30-00383	30-00024	30-00092
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28-00001	28-00366	28-00177	28-00010	28-00041
27-00000	27-00369	27-00161	27-00006	27-00033
26-00000	26-00391	26-00199	26-00013	26-00045
25-00001	25-00440	25-00237	25-00010	25-00051
24-00001	24-00405	24-00206	24-00005	24-00037
23-00001	23-00360	23-00173	23-00009	23-00037
22-00002	22-00404	22-00200	22-00011	22-00044
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13-00000	13-00000	13-00001	13-00000	13-00000
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10-00000	10-00000	10-00000	10-00001	10-00001
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06-00013	06-00009	06-00004	06-00000	06-00000
05-00002	05-00002	05-00001	05-00012	05-00001
04-00001	04-00000	04-00001	04-00007	04-00001
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02-00002	02-00003	02-00004	02-00012	02-00001
01-00000	01-00000	01-00000	01-00009	01-00000
01104360	01104360	01104310	01101140	01059010
0102790	0102790	0102790	0102790	0102790

60K

40K

20K

Test Start

DEF. IND.
ZERO REF.

@ 5K

Strain Cage
R Cal

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PANEL TT802023-211-2

34-01050	34-01412	34-01601	34-02257	34-02775	34-03602
33-00369	33-00475	33-00542	33-00560	33-00541	33-00321
32-00792	32-00981	32-01161	32-01346	32-01525	32-01706
31-00132	31-00146	31-00142	31-00106	31-00028	31-00324
30-01439	30-01864	30-02376	30-02953	30-03670	30-04852
29-00721	29-00904	29-01077	29-01256	29-01428	29-01610
28-00731	28-00902	28-01060	28-01219	28-01355	28-01482
27-00608	27-01030	27-01243	27-01459	27-01664	27-01698
26-00782	26-00982	26-01181	26-01390	26-01598	26-01629
25-00628	25-01019	25-01200	25-01383	25-01555	25-01734
24-00791	24-00973	24-01143	24-01311	24-01451	24-01572
23-00761	23-00977	23-01196	23-01426	23-01658	23-01909
22-00806	22-01008	22-01206	22-01404	22-01582	22-01748
21-00794	21-01007	21-01222	21-01453	21-01679	21-01909
20-00834	20-01034	20-01222	20-01453	20-01679	20-01909
19-00802	19-01001	19-01196	19-01383	19-01555	19-01734
18-00804	18-01003	18-01196	18-01383	18-01555	18-01734
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00-00821	00-01020	00-01196	00-01383	00-01555	00-01734
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00-00859	00-01058	00-01196	00-01383	00-01555	00-01734
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00-00862	00-01061	00-01196	00-01383	00-01555	00-01734
00-00863	00-01062	00-01196	00-01383	00-01555	00-01734
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00-00884	00-01083	00-01196	00-01383	00-01555	00-01734
00-00885	00-01084	00-01196	00-01383	00-01555	00-01734
00-00886	00-01085	00-01196	00-01383	00-01555	00-01734
00-00887	00-01086	00-01196	00-01383	00-01555	00-01734
00-00888	00-01087	00-01196	00-01383	00-01555	00-01734
00-00889	00-01088	00-01196	00-01383	00-01555	00-01734
00-00890	00-01089	00-01196	00-01383	00-01555	00-01734
00-00891	00-01090	00-01196	00-01383	00-01555	00-01734
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00-00901	00-01100	00-01196	00-01383	00-01555	00-01734
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00-00910	00-01109	00-01196	00-01383	00-01555	00-01734
00-00911	00-01110	00-01196	00-01383	00-01555	00-01734
00-00912	00-01111	00-01196	00-01383	00-01555	00-01734
00-00913	00-01112	00-01196	00-01383	00-01555	00-01734
00-00914	00-01113	00-01196	00-01383	00-01555	00-01734
00-00915	00-01114	00-01196	00-01383	00-01555	00-01734
00-00916	00-01115	00-01196	00-01383	00-01555	00-01734
00-00917	00-01116	00-01196	00-01383	00-01555	00-01734
00-00918	00-01117	00-01196	00-01383	00-01555	00-01734
00-00919	00-01118	00-01196	00-01383	00-01555	00-01734
00-00920	00-01119	00-01196	00-01383	00-01555	00-01734

	200K	210K	220K	Perm. Set. Check	230K
34-0527A	34-06766	34-09109	34-06250	34-09186	34-12838
33-00629	33-00629	33-01251	33-02432	33-01338	33-02277
32-01947	32-01947	32-02007	32-00023	32-02034	32-02057
31-01269	31-01269	31-02019	31-02288	31-02097	31-03089
30-08512	30-08512	30-10949	30-07751	30-11122	30-14989
29-01855	29-01855	29-01917	29-00068	29-01930	29-01933
28-01568	28-01568	28-01612	28-00065	28-01598	28-01548
27-02327	27-02327	27-02532	27-00165	27-02563	27-02659
26-02214	26-02214	26-02361	26-00341	26-02390	26-02533
25-02022	25-02022	25-02150	25-00242	25-02165	25-02355
24-01680	24-01680	24-01683	24-00170	24-01684	24-01624
23-02317	23-02317	23-02460	23-00443	23-02490	23-02627
22-01979	22-01979	22-02051	22-00118	22-02055	22-02092
21-02234	21-02234	21-02351	21-00024	21-02369	21-02511
20-00036	20-00036	20-00999	20-00035	20-00035	20-00035
19-00003	19-00003	19-00004	19-00004	19-00004	19-00004
18-00005	18-00005	18-00005	18-00005	18-00005	18-00005
17-00002	17-00002	17-00003	17-00003	17-00003	17-00003
16-00005	16-00005	16-00005	16-00005	16-00005	16-00005
15-00017	15-00017	15-00026	15-00011	15-00026	15-00035
14-00013	14-00013	14-00020	14-00009	14-00022	14-00031
13-00005	13-00007	13-00009	13-00005	13-00009	13-00013
12-00051	12-00063	12-00082	12-00024	12-00087	12-00121
11-00023	11-00023	11-00034	11-00020	11-00035	11-00054
10-00022	10-00026	10-00022	10-00033	10-00035	10-00044
09-00027	09-00027	09-00031	09-00011	09-00032	09-00041
08-00014	08-00016	08-00012	08-00005	08-00018	08-00023
07-00062	07-00071	07-00084	07-00022	07-00089	07-00116
06-00045	06-00045	06-00058	06-00023	06-00059	06-00076
05-00008	05-00008	05-00011	05-00020	05-00012	05-00017
04-00004	04-00004	04-00004	04-00009	04-00005	04-00013
03-00017	03-00017	03-00017	03-00005	03-00021	03-00030
02-00004	02-00004	02-00008	02-00008	02-00008	02-00017
01-00001	01-00001	01-00000	01-00000	01-00001	01-00005
01109380	01109380	01109430	01112370	01113560	01114240
00102790	00102790	00102790	00102790	00102790	00102790

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34-24716	34-23553	34-26215
33-04964	33-09013	33-10239
32-01787	32-02384	32-02624
31-08748	31-13582	31-12796
30-23644	30-21196	30-21663
29-01505	29-03909	29-03946
28-01118	28-00470	28-00609
27-03577	27-04745	27-01239
26-02640	26-01851	26-00557
25-02837	25-03378	25-00418
24-01299	24-00378	24-00643
23-02675	23-01830	23-00585
22-01670	22-00277	22-00223
21-02738	21-01675	21-00305
~~20-00634~~	~~20-00022~~	~~20-00624~~
~~19-00001~~	~~19-00003~~	~~19-00002~~
~~18-00006~~	~~18-00006~~	~~18-00007~~
~~17-00004~~	~~17-00004~~	~~17-00004~~
~~16-00005~~	~~16-00006~~	~~16-00006~~
15-00049	15-00040	15-00027
14-00040	14-00031	14-00018
13-00026	13-00039	13-00036
12-00225	12-00718	12-00550
11-00113	11-00498	11-00426
10-00058	10-00048	10-00031
09-00054	09-00049	09-00023
08-00032	08-00039	08-00027
07-00193	07-00516	07-00384
06-00135	06-00490	06-00410
05-00011	05-00262	05-00192
04-00040	04-00303	04-00229
03-00057	03-00320	03-00280
02-00041	02-00300	02-00234
01-00023	01-00274	01-00219
0111490	01117010	01118180
00102790	00102790	00102790
236.5K	Post Buckling @	Post Buckling @
		0
	163.5K	

APPENDIX F / DECK/BULKHEAD ELEMENT TEST DATA

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2 / FATIGUE TEST DATA	B-701

LIST OF ILLUSTRATIONS

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F-2	Annotated Example of Data Printout	B-693
F-3	Strain Gage Identifications, Locations and Orientations on Deck/Bulkhead Element Tensile Fatigue Test Specimens	B-702

1 / STATIC TEST DATA

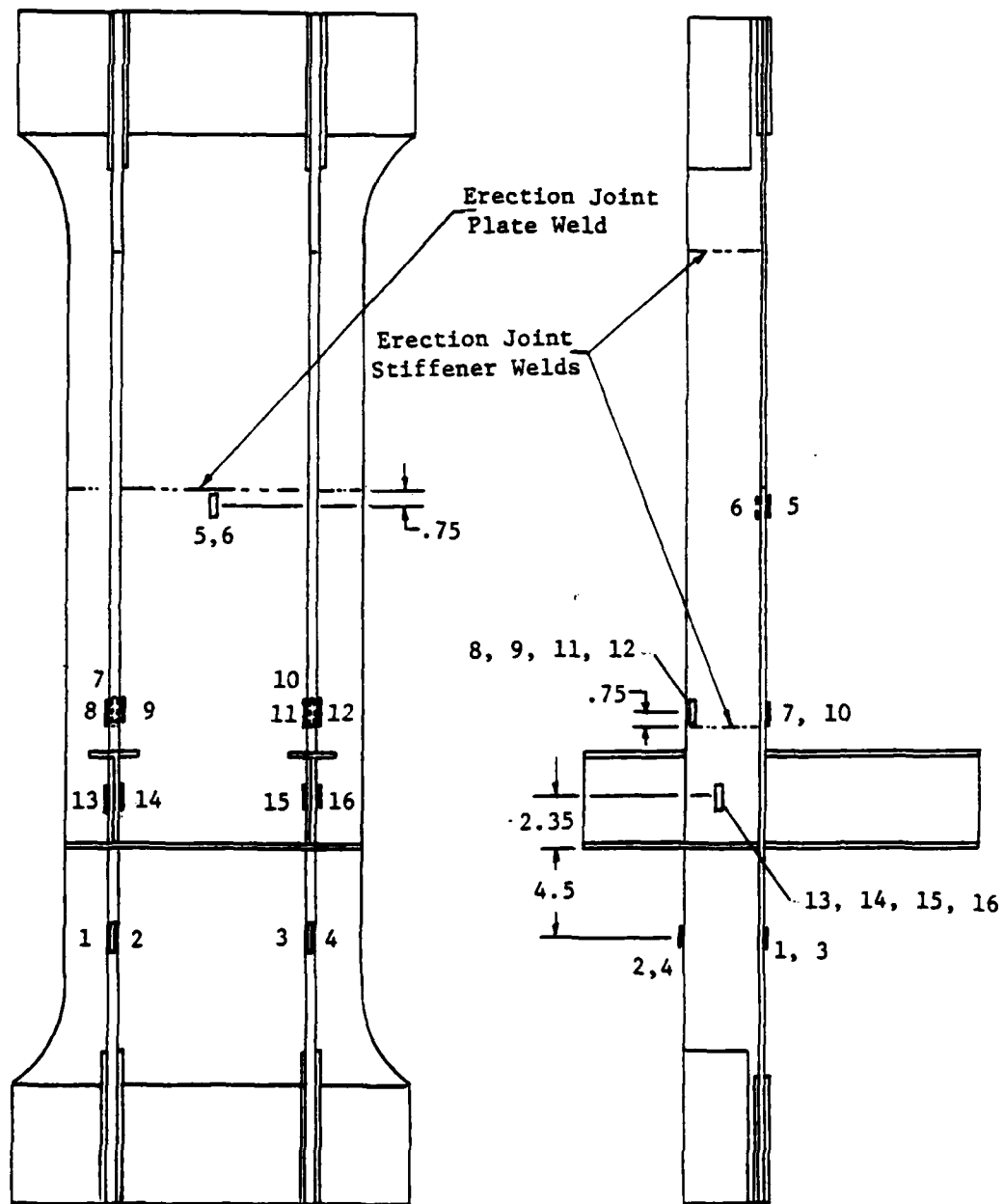
This section contains all recorded test data for the deck/bulkhead element static tensile test specimens. The data set presented for each specimen starts with an autographic plot of applied load versus axial strain averaged over a 10-inch gage length of the element mid-section centered on the deck plate butt weld. Tabulations of the recorded strain gage readings for all applied load increments and calibration checks complete the data set for each specimen. Preceding the first data set are an illustration of strain measurement locations on the specimens correlated to data channel numbers, Figure F-1, and an annotated example of data printout, Figure F-2.

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TT802033-1-S2	B-697

PRECEDING PAGE BLANK-NOT FILMED

TER073



Note: All dimensions shown in inches.

Figure F-1. Strain Gage Identifications, Locations and Orientations for Deck/Bulkhead Element Static Tensile Test Specimens.

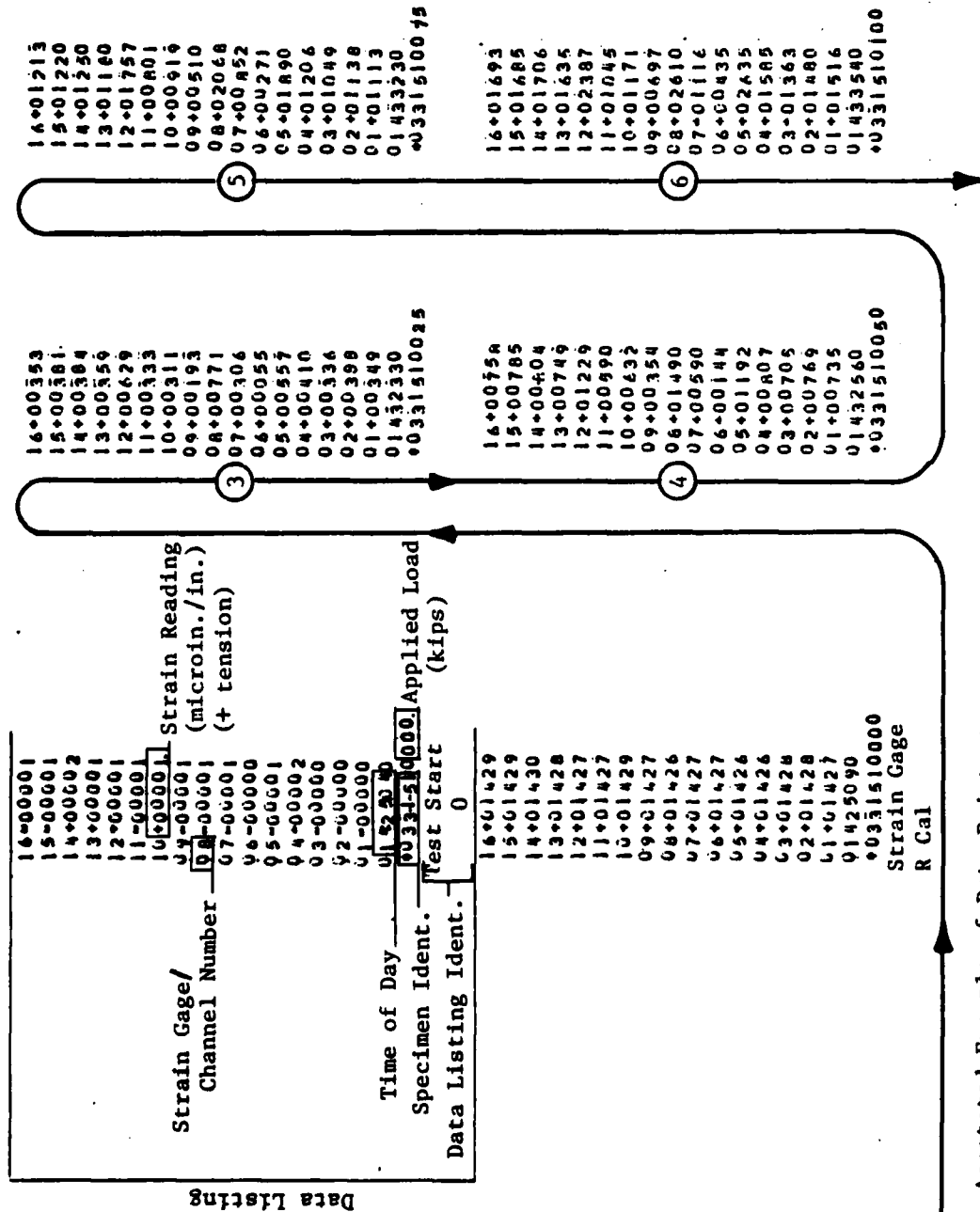
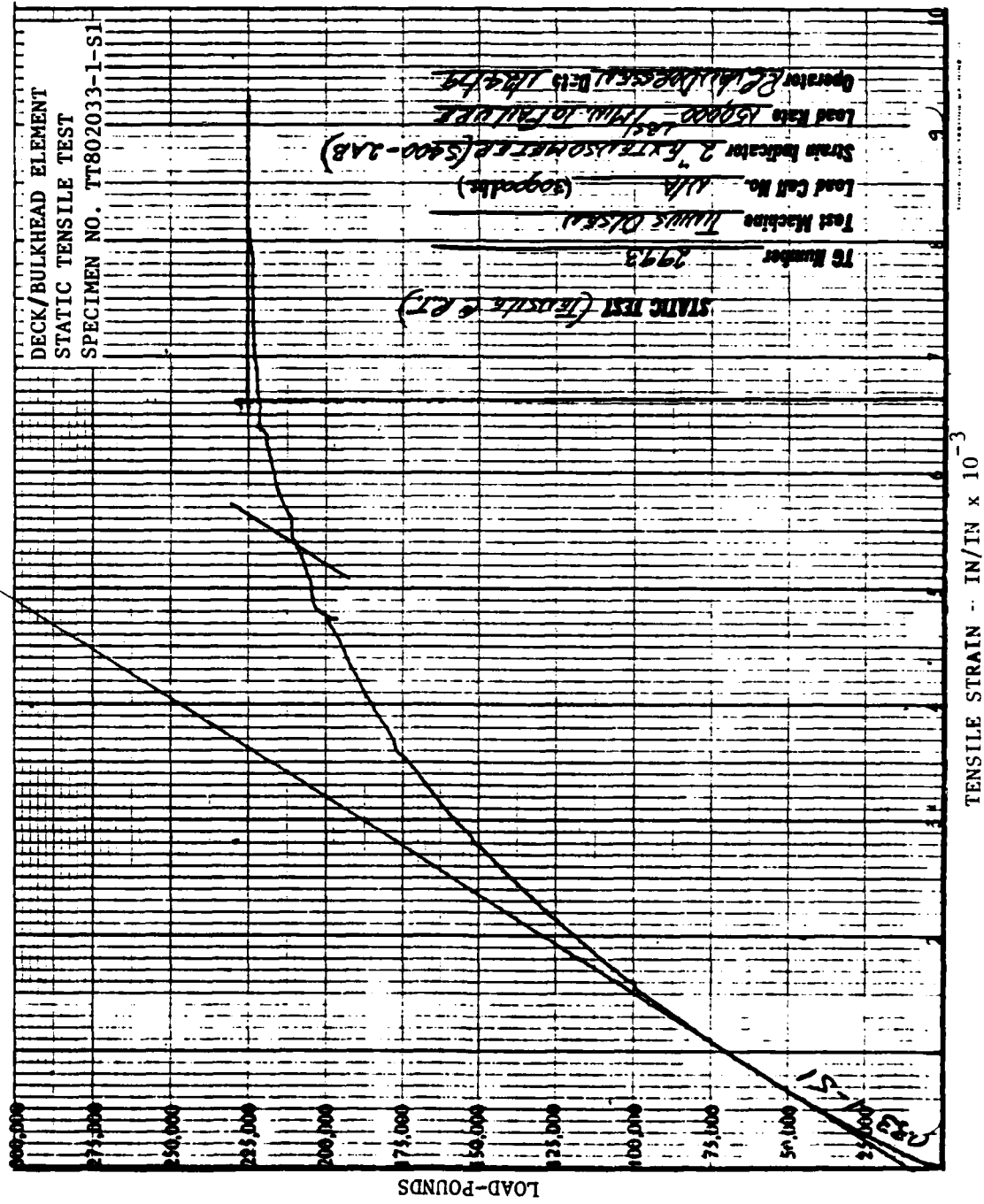


Figure F-2. Annotated Example of Data Printout.



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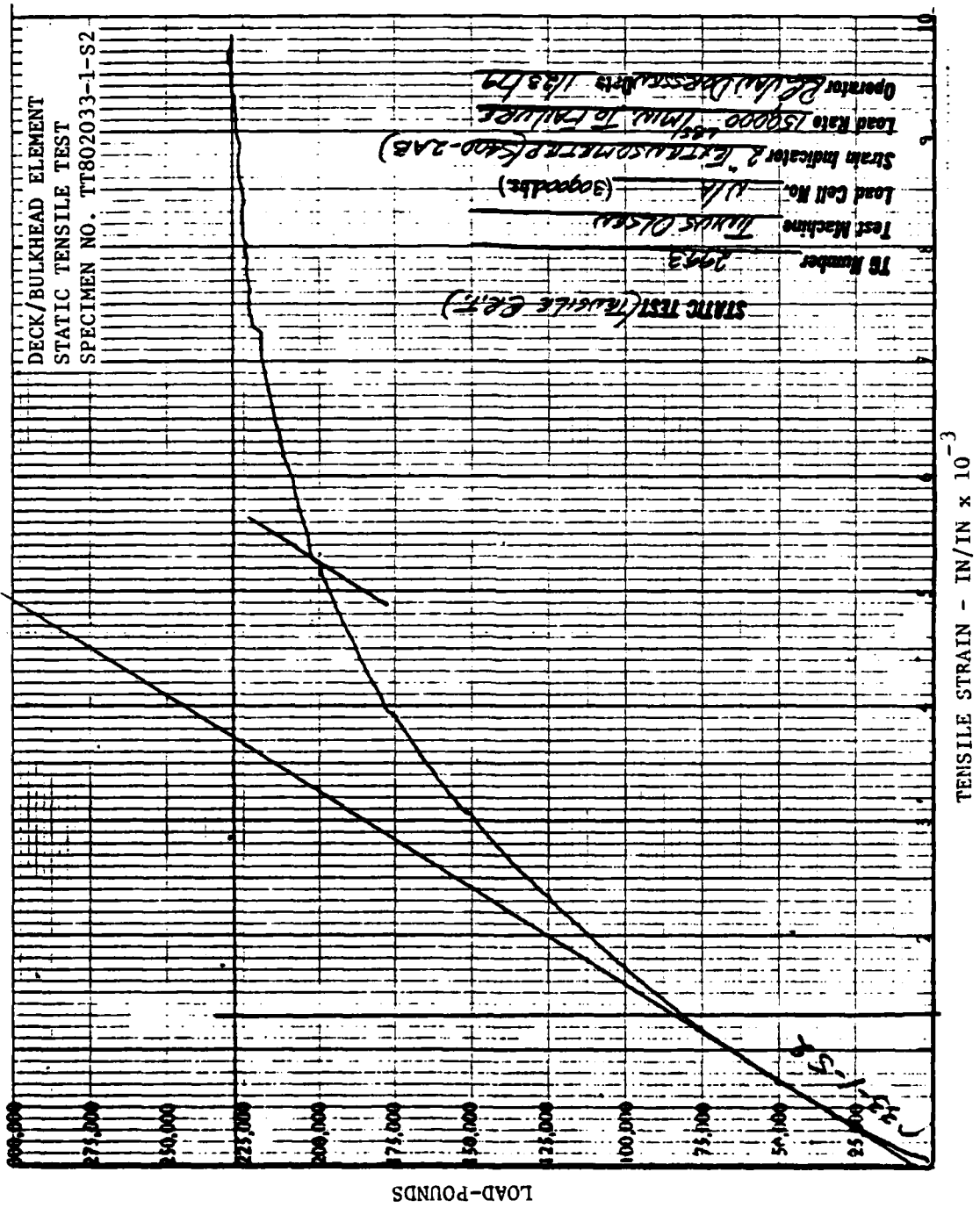
Deck/Bulkhead Element No. TT802033-1-S1
Strain Data - Initial Static Tensile Test

Test Start	0	Load - kips	
16-00001	16-00153	16-01213	16-02184
15-00001	15-00181	15-01220	15-02155
14-00002	14-00184	14-01230	14-02165
13-00001	13-00159	13-01160	13-02119
12-00001	12-00129	12-01757	12-03045
11-00001	11-00133	11-00801	11-01670
10-00001	10-00311	10-00919	10-01508
09-00001	09-00193	09-00510	09-01220
08-00001	08-00771	08-02068	08-03452
07-00001	07-00306	07-00852	07-01671
06-00000	06-00055	06-00271	06-00457
05-00001	05-00557	05-01890	05-03493
04-00002	04-00410	04-01206	04-01905
03-00000	03-00334	03-01049	03-01908
02-00000	02-00389	02-01138	02-01775
01-00000	01-00349	01-01113	01-02515
01425040	01432330	01433230	01435370
*0331510000	*0331510045	*0331510075	*0331510125
Strain Gage			
R Cal			
16-01429	16-00754	16-01693	16-02657
15-01429	15-00785	15-01485	15-02601
14-01430	14-00404	14-01706	14-02606
13-01428	13-00749	13-01635	13-02597
12-01427	12-01229	12-02387	12-04847
11-01427	11-00590	11-01045	11-02559
10-01429	10-00432	10-01171	10-02084
09-01427	09-00354	09-00497	09-02058
08-01426	08-01490	08-02610	08-03085
07-01427	07-00590	07-01116	07-02591
06-01427	06-00144	06-00435	06-00930
05-01426	05-01192	05-02435	05-04449
04-01426	04-00807	04-01585	04-02170
03-01428	03-00705	03-01363	03-02652
02-01428	02-00769	02-01480	02-02043
01-01427	01-00735	01-01516	01-03187
01425090	01432560	01433540	01436010
*0331510000	*0331510050	*0331510100	*0331510150

Deck/Bulkhead Element No. TT802033-1-S1 1/24/79
Strain Data - Initial Static Tensile Test

16+03128	16+03709	16+01659
15+03062	15+03712	15+01444
14+03055	14+03667	14+04026
13+03103	13+03798	13+04209
12+05421	12+01414	12+01276
11+03948	11+00429	11+00133
10+03277	10+05918	10+10794
09+03084	09+07966	09+06261
08+01981	08+00369	08+00279
07+03581	07+04922	07+06683
06+01208	06+02095	06+06721
05+05589	05+08394	05+11746
04+02413	04+02727	04+02930
03+03343	03+04307	03+05269
02+02327	02+02598	02+02687
01+03830	01+04493	01+06295
01436250	01439410	01441300
00331510175	00331510210	00331510230

16+03561	16+03857	16+00876
15+03540	15+03914	15+00916
14+03513	14+03699	14+01137
13+03425	13+04064	13+01267
12+02495	12+01263	12+01366
11+02119	11+00353	11+00191
10+04912	10+07098	10+03998
09+05203	09+07594	09+04403
08+00564	08+00294	08+00245
07+04594	07+05376	07+04461
06+01684	06+02875	06+03472
05+07521	05+09679	05+06078
04+02644	04+02779	04+00944
03+04033	03+04715	03+02349
02+02553	02+02678	02+00373
01+04573	01+05387	01+02438
01436570	01441200	01447150
00331510200	00331510220	00331510000
		Post Failure
		0



Deck/Bulkhead Element No. TT802033-1-S2 1/23/79
Strain Data - Initial Static Tensile Test

16+00001
15+00002
14+00000
13+00001
12+00000
11+00000
10+00002
09+00001
08+00000
07+00002
06+00002
05+00001
04+00001
03+00002
02+00000
01+00002
00+017530
00331520000
Test Start
0

16+01416
15+01417
14+01419
13+01421
12+01418
11+01417
10+01415
09+01416
08+01416
07+01417
06+01419
05+01415
04+01418
03+01416
02+01416
01+01414
00+017580
00331520000
Strain Gage
R Cal

16+00376
15+00364
14+00378
13+00335
12+00554
11+00311
10+00435
09+00263
08+00338
07+00637
06+00554
05+00089
04+00365
03+00375
02+00342
01+00398
00+00590
00331520000
Load - Kips

16+00779
15+00758
14+00782
13+00697
12+01088
11+00599
10+00836
09+00501
08+00064
07+01209
06+01173
05+00211
04+00754
03+00744
02+00711
01+00773
00+01350
00331520050

16+02136
15+02024
14+02178
13+01475
12+02511
11+01723
10+02284
09+01252
08+01540
07+02977
06+03452
05+00421
04+02401
03+01683
02+01949
01+01851
00+02620
00331520125

16+02599
15+02428
14+02672
13+02432
12+04751
11+02557
10+04475
09+01928
08+02306
07+04394
06+04269
05+01166
04+03025
03+01413
02+02713
01+02157
00+02730
00331520190

16+01216
15+01178
14+01210
13+01091
12+01569
11+00859
10+01190
09+00712
08+00958
07+01679
06+01853
05+00368
04+01130
03+01112
02+01043
01+01139
00+02430
00331520075

16+01673
15+01606
14+01681
13+01524
12+02063
11+01150
10+01509
09+00936
08+01227
07+02170
06+02417
05+00568
04+01462
03+01421
02+01328
01+01515
00+025630
00331520100

Deck/Bulkhead Element No. TT802033-1-S2
 1/23/79
 Strain Data - Initial Static Tensile Test

16+03078
 15+02832
 14+03176
 13+02887
 12+07015
 11+03539
 10+02996
 09+02906
 08+03305
 07+03046
 06+05987
 05+01423
 04+03670
 03+02141
 02+03314
 01+02450
 00+29180
 +0331520175

16+04134
 15+03649
 14+04310
 13+03761
 12+03112
 11+06316
 10+01105
 09+08947
 08+06072
 07+01660
 06+00456
 05+05960
 04+05442
 03+02434
 02+04481
 01+02972
 00+31490
 +0331520220

16+02002
 15+01500
 14+02564
 13+02114
 12+01830
 11+02175
 10+00673
 09+01485
 08+12233
 07+01253
 06+00161
 05+12862
 04+07544
 03+02713
 02+05862
 01+03408
 00+35310
 +0331520335

16+03422
 15+03271
 14+03753
 13+03363
 12+07665
 11+04628
 10+01138
 09+04575
 08+04549
 07+04937
 06+02880
 05+02377
 04+04450
 03+02361
 02+03695
 01+02752
 00+30210
 +0331520200

16+04472
 15+03871
 14+04773
 13+04074
 12+02055
 11+10840
 10+01044
 09+13048
 08+08585
 07+01201
 06+00119
 05+12736
 04+07205
 03+02453
 02+05069
 01+03172
 00+33310
 +0331520230

16+01335
 15+00699
 14+01615
 13+00600
 12+01715
 11+01680
 10+00599
 09+10171
 08+09514
 07+01173
 06+00604
 05+09483
 04+04001
 03+00896
 02+02288
 01+00179
 00+01150
 +0331520000
 Post Failure
 0

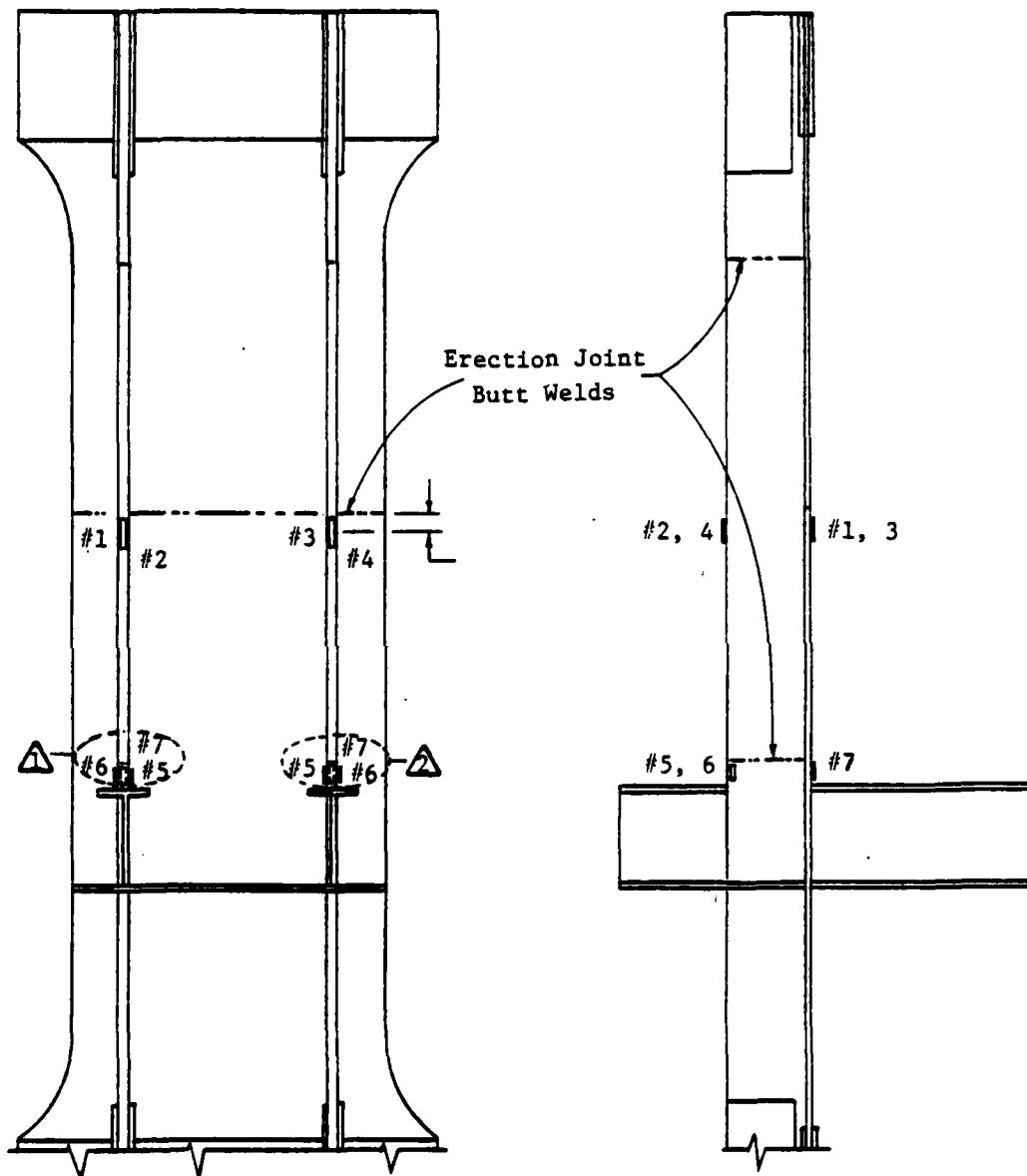
2 / FATIGUE TEST DATA

This section contains tabulations of all recorded data from the static tensile strain survey test conducted on each deck/bulkhead element fatigue test specimen prior to the start of cyclic testing. These surveys were conducted on all three fatigue test specimens since independent measurements made by the test laboratory revealed that each specimen, as delivered, had longitudinal bowing distortion exceeding the specified limit. The peak localized strain recorded for each specimen during the survey was then used as a basis to establish the peak nominal stress level for fatigue cycling.

Figure F-3, which precedes the tabulated strain data, documents the identifications, locations and orientations of all strain gages installed in various patterns on the deck/bulkhead element fatigue test specimens.

Index of Strain Survey Data Sets

Specimen Number	Page
TT802033-1-F1	B-703
TT802033-1-F2	B-704
TT802033-1-F3	B-705



- Notes:
- △ For Specimen No. TT802033-1-F1 only.
 - △ For Specimens No. TT802033-1-F2 and -F3 only.
 - 3. All gages were Micro-Measurements Type EA-13-250BG-120W except gages no. 5 and 6 on Specimen No. TT802033-1-F2 were Micro-Measurements Type EA-13-125AD-120.

Figure F-3. Strain Gage Identifications, Locations and Orientations for Deck/Bulkhead Element Tensile Fatigue Test Specimens.

Static Loading Strain Survey Results - Deck/Bulkhead
Element No. TT802033-1-F1.

Cross-Section Area = 6.231 sq. in. Test Date: 10/9/79
Note: Reference Figure F-3 for locations of strain gages on test specimen.

Axial Load (kips)	Nominal Stress (ksi))	Strain Gage Reading - Microinches/inch						
		SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
0	0	0	-2	1	-7	4	-5	0
12.46	2	187	277	176	281	483	211	214
24.92	4	401	504	381	513	892	408	456
37.39	6	623	723	596	737	1311	789	768
0	0	0	-15	-2	-10	30	218	38
43.62	7	724	852	693	873	1588	1202	950
0	0	-1	-12	-2	0	88	585	148
43.62	7	NR	NR	NR	NR	NR	1266	NR
0	0	NR	NR	NR	NR	NR	33	NR
40.50	6.5	698	806	631	812	1504	686	910
0	0	20	5	-11	5	90	46	148

Selected maximum load for fatigue testing

NR - Not Recorded

△ SG 6 rebalanced to a zero reading before repeat loading to 7 ksi nominal stress.

Static Loading Strain Survey Results - Deck/Bulkhead Element
No. TT802033-1-F2

Cross-Section Area = 6.266 sq. in. Test Date: 11/8/79
Note: Reference Figure F-3 for locations of strain gages on test specimen.

Axial Load (kips)	Nominal Stress (ksi)	Strain Gage Reading - Microinches/inch						
		SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
0	0	0	0	0	0	0	0	0
12.55	2	203	187	200	193	367	190	197
25.10	4	415	396	408	409	770	405	400
0	0	1	-13	0	-2	3	1	1
31.40	5	522	507	513	524	974	517	509
0	0	1	-12	-1	-1	4	2	6
37.60	6	632	606	621	625	1154	616	652
0	0	2	-12	-1	-2	0	3	40
43.90	7	750	695	718	716	1321	707	852
0	0	5	-17	-16	-3	-3	3	133

Selected
maximum
load for
fatigue
testing

Static Loading Strain Survey Results - Deck/Bulkhead Element
No. TT802033-1-F3.

Cross-Section Area = 6.148 sq. in. Test Date: 10/16/79
Note: Reference Figure F-3 for locations of strain gages on test specimen.

Axial Load (kips)	Nominal Stress (Ksi)	Strain Gage Readings - Microinches/inch						
		SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
0	0	0	1	-1	-2	-2	-4	0
12.30	2	184	251	189	247	368	263	224
24.60	4	388	449	399	446	677	485	475
30.80	5	492	549	508	546	829	599	638
0	0	2	4	1	4	-5	13	40
36.90	6	611	612	623	604	927	669	987
0	0	2	2	1	4	-10	12	255

Selected
maximum
load for
fatigue
testing

APPENDIX G / THREE-BAY PANEL ELEMENT TEST DATA

This appendix contains all data recorded during testing of the three-bay panel element specimens under various combinations of normal pressure and axial compression loading. In general, the data set presented for each specimen and test condition consists of three elements. The first element is a summary table listing the test loading/data recording increments including, as applicable, the normal pressure measurements, applied axial load and corresponding nominal compression stress, and dial deflection indicator readings. For the test conditions involving axial load, the second element in the data set is a copy of the X-Y-Y recorder plot of applied compression load versus loading head travel measured at each end of the head. Completing each data set are tabulations of the strain gage and deflection transducer readings recorded at each load increment.

Preceding the initial data set are illustrations of the strain and displacement (transducer) measurement locations on the three-bay element specimens (Figures G-1 and G-2, respectively) and an annotated example of the strain and deflection data printout (Figure G-3).

INDEX OF DATA SETS

<u>Specimen No.</u>	<u>Test Condition</u>	<u>Page</u>
TT802041-1	Normal Pressure (Elastic)	B-712
	Axial Compression (Elastic)	B-715

TER073

<u>Specimen No.</u>	<u>Test Condition</u>	<u>Page</u>
TT802041-1 (Cont'd)	Axial Compression w/4 psig Normal Pressure (Elastic)	B-719
	Axial Compression w/8 psig Normal Pressure (Elastic)	B-723
	Proportional Axial Compression and Normal Pressure (Plastic)	B-727
	Proportional Axial Compression and Normal Pressure to Failure	B-733
TT802041-1B	Axial Compression to Failure	B-739
TT802041-3	Normal Pressure (Elastic)	B-744
	Axial Compression (Elastic)	B-749
	Axial Compression w/4 psig Normal Pressure (Elastic)	B-754
	Axial Compression w/8 psig Normal Pressure (Elastic)	B-759
TT802041-3 Mod.	Normal Pressure (Elastic)	B-766
	Axial Compression (Elastic)	B-771
	Axial Compression w/4 psig Normal Pressure (Elastic)	B-775
	Axial Compression w/8 psig Normal Pressure (Elastic)	B-781
	Proportional Axial Compression and Normal Pressure to Failure	B-786
TT802041-3A Mod.	Normal Pressure (Elastic)	B-792
	Axial Compression to Failure	B-795

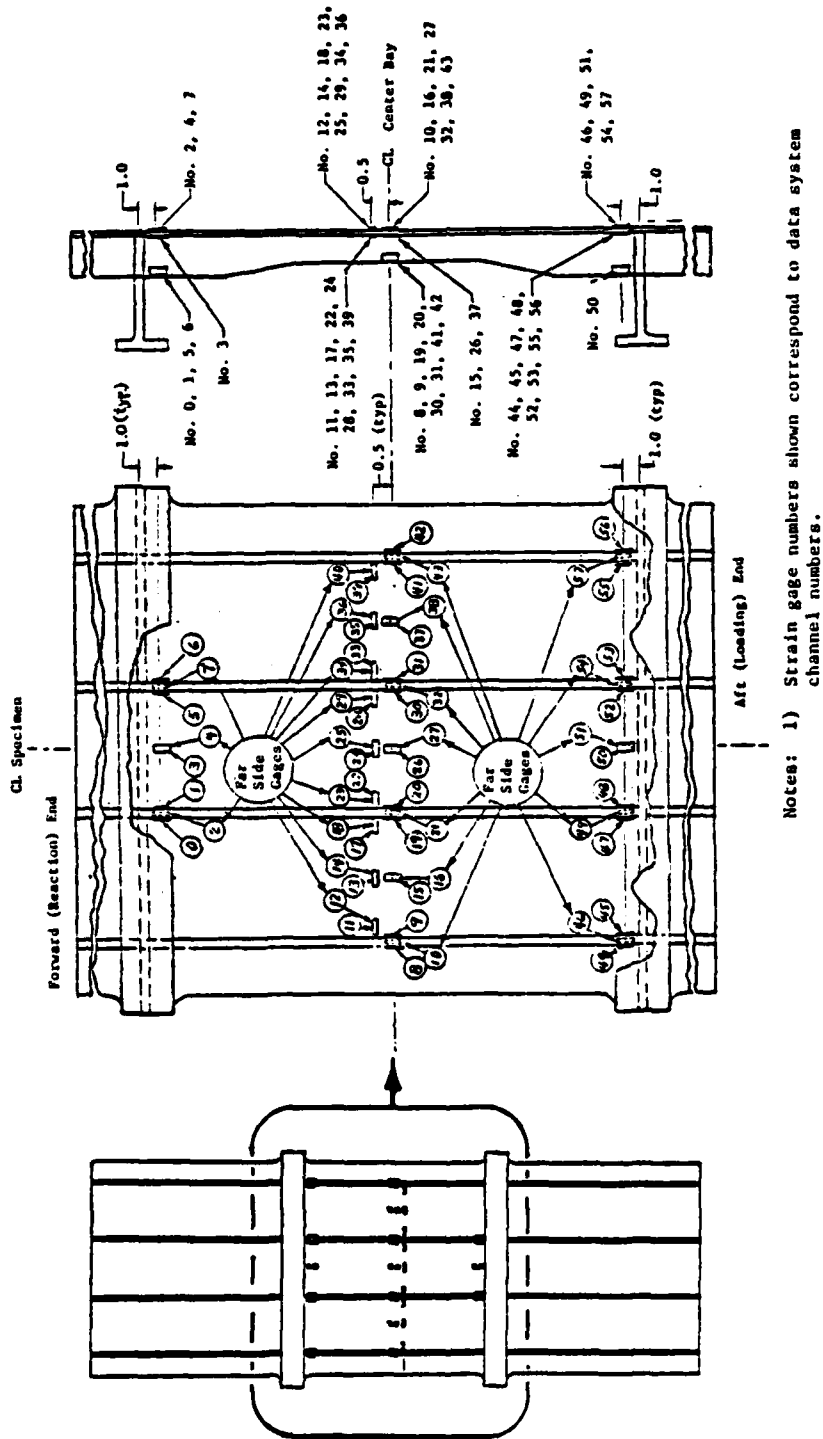


Figure G-1. Strain Gage Identification, Locations and Orientations on Three-Bay Element Specimens.

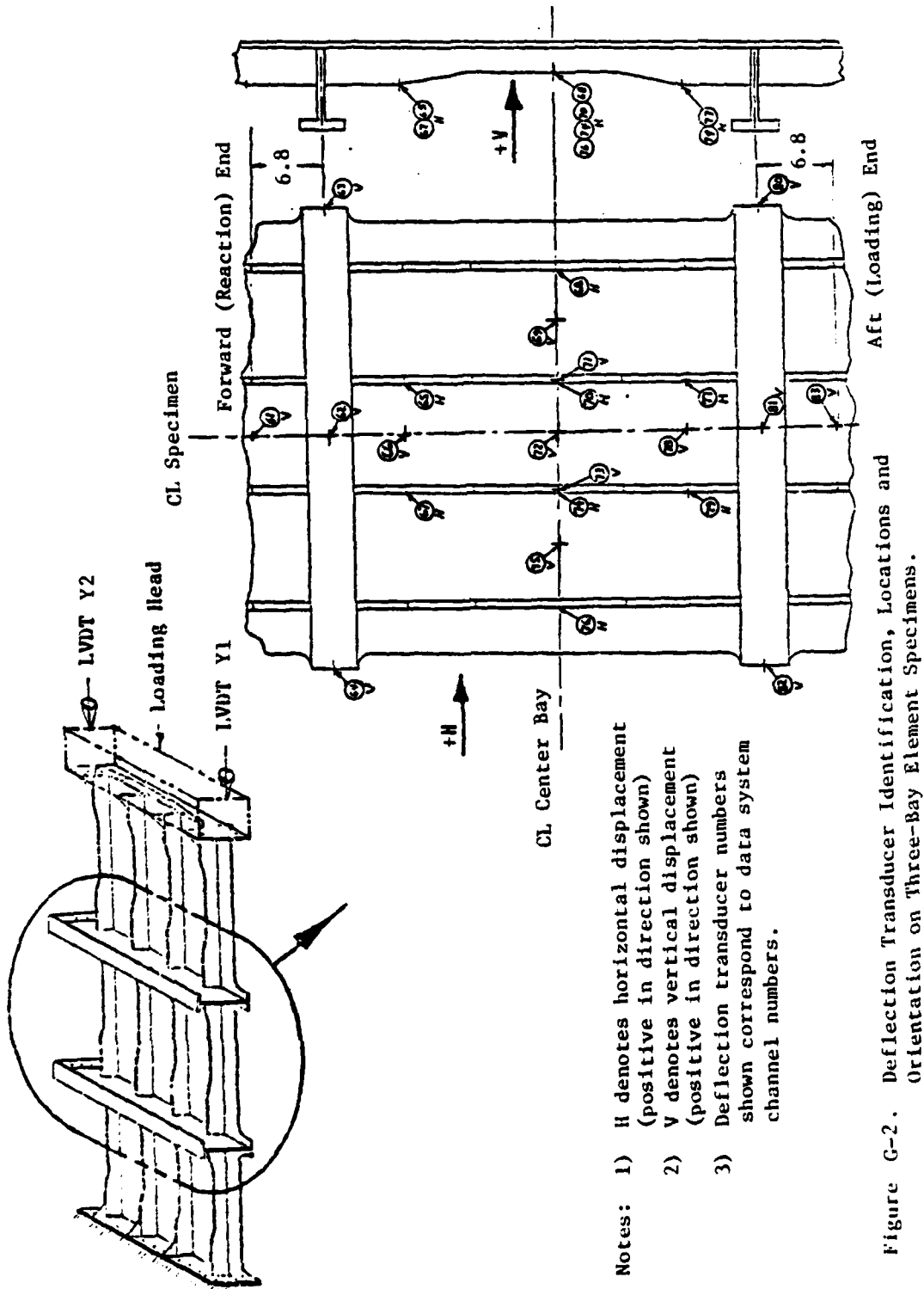


Figure G-2. Deflection Transducer Identification, Locations and Orientation on Three-Bay Element Specimens.

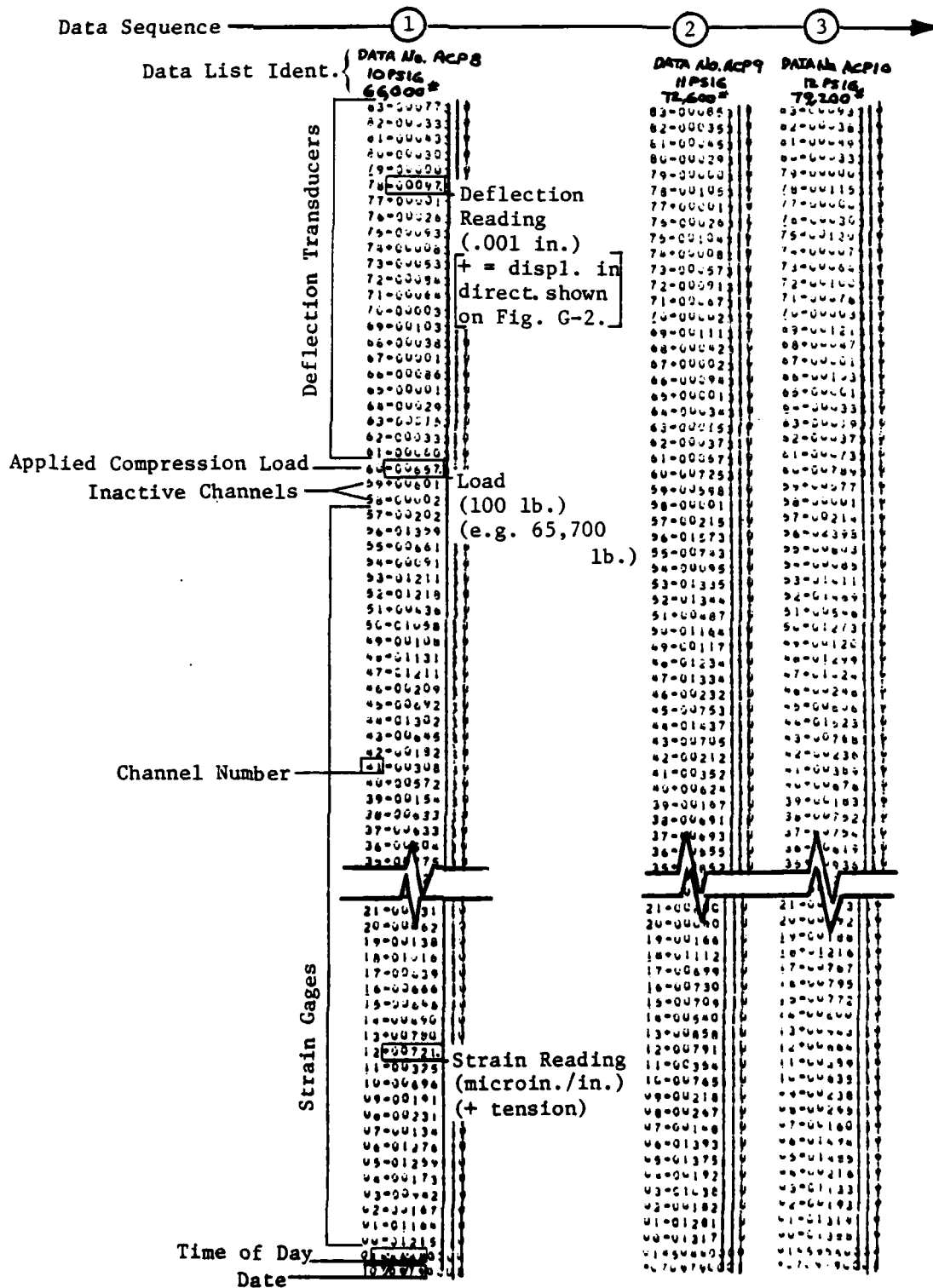


Figure G-3. Annotated Example of Data Printout.

THREE-BAY ELEMENT COMBINED LOADING TEST
NORMAL PRESSURE TEST ON TT 802041-1

DATA No.	PRESSURE	
	PSIG	IN. Hg
P1	0	0
P2	2	4.07
P3	4	8.14
P4	6	12.22
P5	8	16.29
P6	10	20.36
P7	2	4.07
P8	0	0

TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Normal Pressure

Page 1 of 2

DATA No. P1 DATA No. P2 DATA No. P3 DATA No. P4 DATA No. P5 DATA No. P6 DATA No. P7
0 PSIG 2 PSIG 4 PSIG 6 PSIG 8 PSIG 10 PSIG 12 PSIG
AVER 10 PSIG

03-00001	13-00012	23-00026	33-00040	43-00054	53-00068	63-00082
04-00002	14-00013	24-00027	34-00041	44-00055	54-00069	64-00083
05-00003	15-00014	25-00028	35-00042	45-00056	55-00070	65-00084
06-00004	16-00015	26-00029	36-00043	46-00057	56-00071	66-00085
07-00005	17-00016	27-00030	37-00044	47-00058	57-00072	67-00086
08-00006	18-00017	28-00031	38-00045	48-00059	58-00073	68-00087
09-00007	19-00018	29-00032	39-00046	49-00060	59-00074	69-00088
10-00008	20-00019	30-00033	40-00047	50-00061	60-00075	70-00089
11-00009	21-00020	31-00034	41-00048	51-00062	61-00076	71-00090
12-00010	22-00021	32-00035	42-00049	52-00063	62-00077	72-00091
13-00011	23-00022	33-00036	43-00050	53-00064	63-00078	73-00092
14-00012	24-00023	34-00037	44-00051	54-00065	64-00079	74-00093
15-00013	25-00024	35-00038	45-00052	55-00066	65-00080	75-00094
16-00014	26-00025	36-00039	46-00053	56-00067	66-00081	76-00095
17-00015	27-00026	37-00040	47-00054	57-00068	67-00082	77-00096
18-00016	28-00027	38-00041	48-00055	58-00069	68-00083	78-00097
19-00017	29-00028	39-00042	49-00056	59-00070	69-00084	79-00098
20-00018	30-00029	40-00043	50-00057	60-00071	70-00085	80-00099
21-00019	31-00030	41-00044	51-00058	61-00072	71-00086	81-00100
22-00020	32-00031	42-00045	52-00059	62-00073	72-00087	82-00101
23-00021	33-00032	43-00046	53-00060	63-00074	73-00088	83-00102
24-00022	34-00033	44-00047	54-00061	64-00075	74-00089	84-00103
25-00023	35-00034	45-00048	55-00062	65-00076	75-00090	85-00104
26-00024	36-00035	46-00049	56-00063	66-00077	76-00091	86-00105
27-00025	37-00036	47-00050	57-00064	67-00078	77-00092	87-00106
28-00026	38-00037	48-00051	58-00065	68-00079	78-00093	88-00107
29-00027	39-00038	49-00052	59-00066	69-00080	79-00094	89-00108
30-00028	40-00039	50-00053	60-00067	70-00081	80-00095	90-00109
31-00029	41-00040	51-00054	61-00068	71-00082	81-00096	91-00110
32-00030	42-00041	52-00055	62-00069	72-00083	82-00097	92-00111
33-00031	43-00042	53-00056	63-00070	73-00084	83-00098	93-00112
34-00032	44-00043	54-00057	64-00071	74-00085	84-00099	94-00113
35-00033	45-00044	55-00058	65-00072	75-00086	85-00100	95-00114
36-00034	46-00045	56-00059	66-00073	76-00087	86-00101	96-00115
37-00035	47-00046	57-00060	67-00074	77-00088	87-00102	97-00116
38-00036	48-00047	58-00061	68-00075	78-00089	88-00103	98-00117
39-00037	49-00048	59-00062	69-00076	79-00090	89-00104	99-00118
40-00038	50-00049	60-00063	70-00077	80-00091	90-00105	00-00119
41-00039	51-00050	61-00064	71-00078	81-00092	91-00106	01-00120
42-00040	52-00051	62-00065	72-00079	82-00093	92-00107	02-00121
43-00041	53-00052	63-00066	73-00080	83-00094	93-00108	03-00122
44-00042	54-00053	64-00067	74-00081	84-00095	94-00109	04-00123
45-00043	55-00054	65-00068	75-00082	85-00096	95-00110	05-00124
46-00044	56-00055	66-00069	76-00083	86-00097	96-00111	06-00125
47-00045	57-00056	67-00070	77-00084	87-00098	97-00112	07-00126
48-00046	58-00057	68-00071	78-00085	88-00099	98-00113	08-00127
49-00047	59-00058	69-00072	79-00086	89-00100	99-00114	09-00128
50-00048	60-00059	70-00073	80-00087	90-00101	00-00115	10-00129
51-00049	61-00060	71-00074	81-00088	91-00102	01-00116	11-00130
52-00050	62-00061	72-00075	82-00089	92-00103	02-00117	12-00131
53-00051	63-00062	73-00076	83-00090	93-00104	03-00118	13-00132
54-00052	64-00063	74-00077	84-00091	94-00105	04-00119	14-00133
55-00053	65-00064	75-00078	85-00092	95-00106	05-00120	15-00134
56-00054	66-00065	76-00079	86-00093	96-00107	06-00121	16-00135
57-00055	67-00066	77-00080	87-00094	97-00108	07-00122	17-00136
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59-00057	69-00068	79-00082	89-00096	99-00110	09-00124	19-00138
60-00058	70-00069	80-00083	90-00097	00-00111	10-00125	20-00139
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64-00062	74-00073	84-00087	94-00101	04-00115	14-00129	24-00143
65-00063	75-00074	85-00088	95-00102	05-00116	15-00130	25-00144
66-00064	76-00075	86-00089	96-00103	06-00117	16-00131	26-00145
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72-00070	82-00081	92-00095	02-00109	12-00123	22-00137	32-00151
73-00071	83-00082	93-00096	03-00110	13-00124	23-00138	33-00152
74-00072	84-00083	94-00097	04-00111	14-00125	24-00139	34-00153
75-00073	85-00084	95-00098	05-00112	15-00126	25-00140	35-00154
76-00074	86-00085	96-00099	06-00113	16-00127	26-00141	36-00155
77-00075	87-00086	97-00100	07-00114	17-00128	27-00142	37-00156
78-00076	88-00087	98-00101	08-00115	18-00129	28-00143	38-00157
79-00077	89-00088	99-00102	09-00116	19-00130	29-00144	39-00158
80-00078	90-00089	00-00103	10-00117	20-00131	30-00145	40-00159
81-00079	91-00090	01-00104	11-00118	21-00132	31-00146	41-00160
82-00080	92-00091	02-00105	12-00119	22-00133	32-00147	42-00161
83-00081	93-00092	03-00106	13-00120	23-00134	33-00148	43-00162
84-00082	94-00093	04-00107	14-00121	24-00135	34-00149	44-00163
85-00083	95-00094	05-00108	15-00122	25-00136	35-00150	45-00164
86-00084	96-00095	06-00109	16-00123	26-00137	36-00151	46-00165
87-00085	97-00096	07-00110	17-00124	27-00138	37-00152	47-00166
88-00086	98-00097	08-00111	18-00125	28-00139	38-00153	48-00167
89-00087	99-00098	09-00112	19-00126	29-00140	39-00154	49-00168
90-00088	00-00099	10-00113	20-00127	30-00141	40-00155	50-00169
91-00089	01-00100	11-00114	21-00128	31-00142	41-00156	51-00170
92-00090	02-00101	12-00115	22-00129	32-00143	42-00157	52-00171
93-00091	03-00102	13-00116	23-00130	33-00144	43-00158	53-00172
94-00092	04-00103	14-00117	24-00131	34-00145	44-00159	54-00173
95-00093	05-00104	15-00118	25-00132	35-00146	45-00160	55-00174
96-00094	06-00105	16-00119	26-00133	36-00147	46-00161	56-00175
97-00095	07-00106	17-00120	27-00134	37-00148	47-00162	57-00176
98-00096	08-00107	18-00121	28-00135	38-00149	48-00163	58-00177
99-00097	09-00108	19-00122	29-00136	39-00150	49-00164	59-00178
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01-00099	11-00110	21-00124	31-00138	41-00152	51-00166	61-00180
02-00100	12-00111	22-00125	32-00139	42-00153	52-00167	62-00181
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04-00102	14-00113	24-00127	34-00141	44-00155	54-00169	64-00183
05-00103	15-00114	25-00128	35-00142	45-00156	55-00170	65-00184
06-00104	16-00115	26-00129	36-00143	46-00157	56-00171	66-00185
07-00105	17-00116	27-00130	37-00144	47-00158	57-00172	67-00186
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29-						

TER073

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Normal Pressure

Page 2 of 2

DATA No. P0

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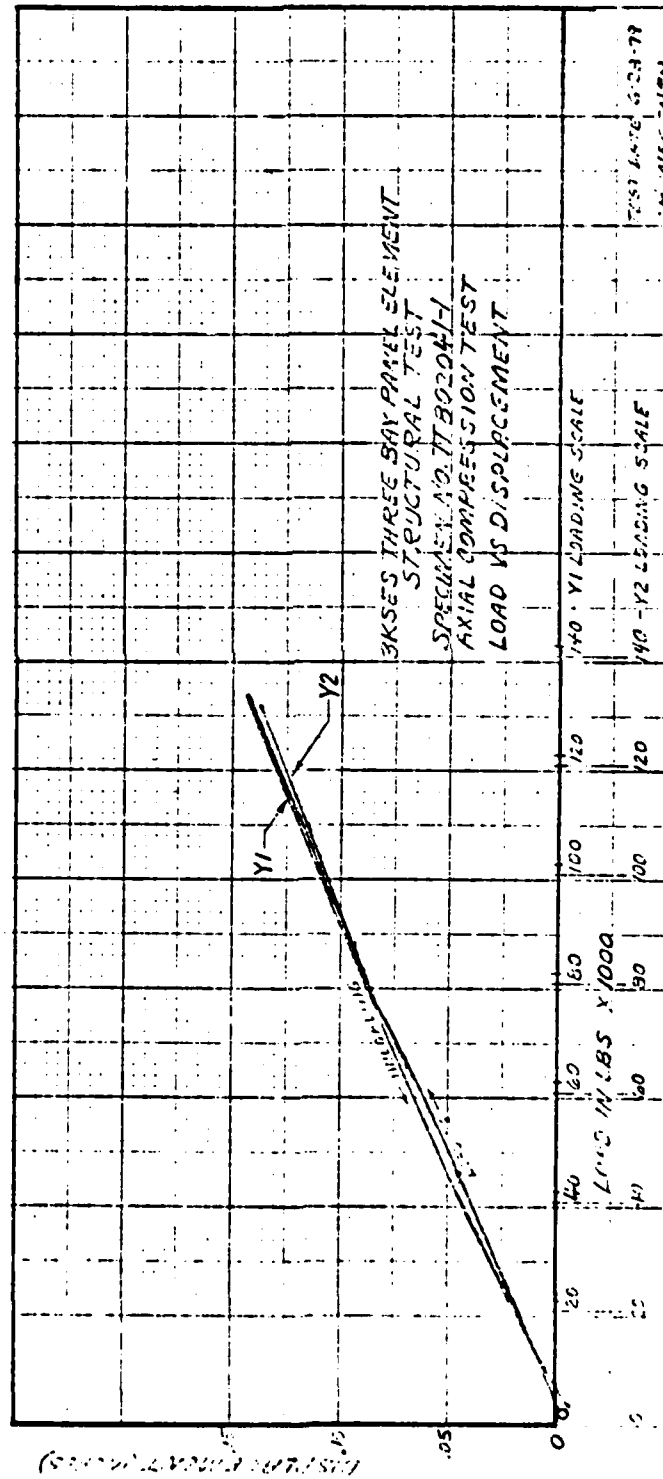
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DANIEL AREA = 10.917 IN.²

1-140208 LL NO 4531 NO1553 ADD'D 7/11/47

TEST DATE 6-28-79

DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	DIAL IND						
			D1 (OPPOSITE PI)	D2 (OPPOSITE CY.)					
A01	0	0	.1000	.1000	HYD. CYL. P.W. OUT				
A01a	0	0	.1005	.1005	HYD. CYL. P.W. IN				
A02	2,000	21,934	.1025	.1028					
A03	4,000	43,668	.1055	.1061					
A04	6,000	65,502	.1100	.1117					
A05	8,000	87,336	.1122	.1172					
A06	10,000	109,170	.1130	.1184					
A07	12,000	131,004	.1142	.1200					
A08	2,000	21,500	.0990	.1038					
A09	0	0	.0938	.0910	HYD. CYL. P.W. IN				
A010	0	0	.0938	.0910	HYD. CYL. P.W. OUT				



Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Axial Compression Page 1 of 2

[illegible]

TER073

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Axial Compression

Page 2 of 2

DATA NO. 1	DATA NO. 2	DATA NO. 3	DATA NO. 4
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20+00038	20+00038	20+00038	20+00038
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THREE BOY ELEMENT COMBINED LOADING TEST

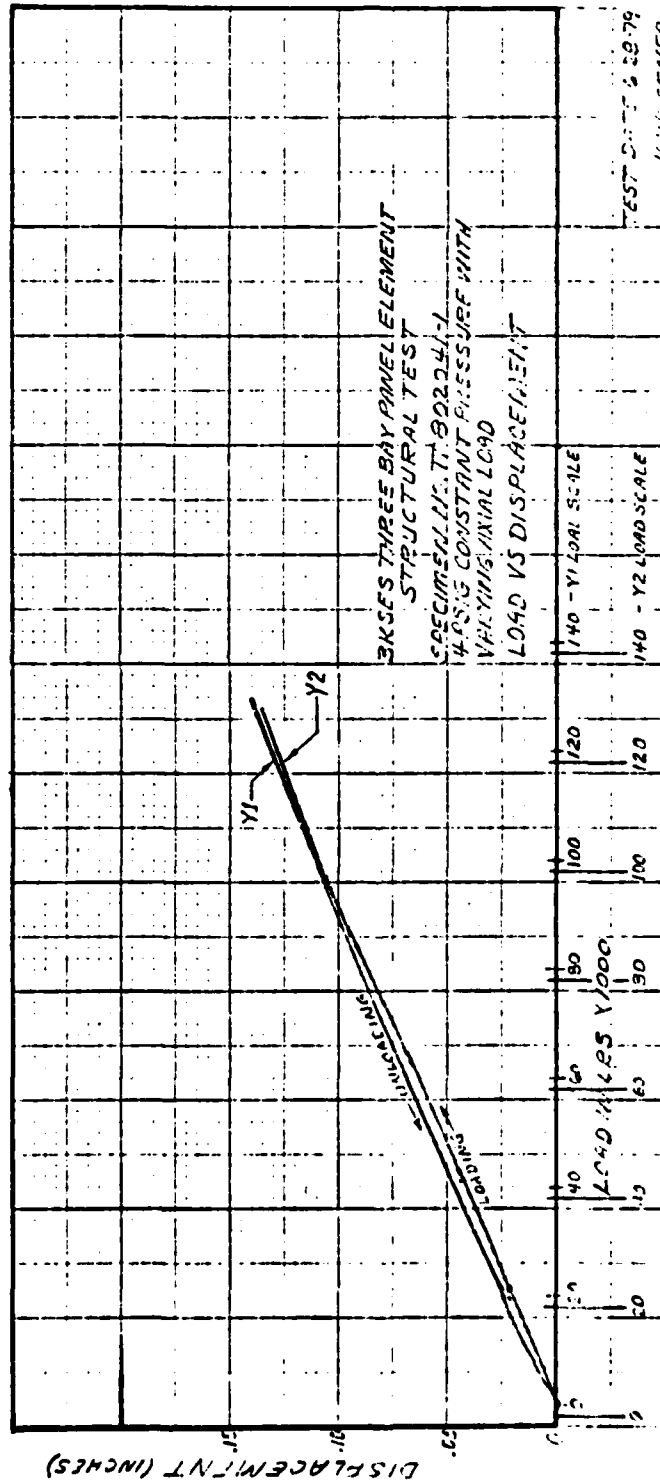
AXIAL COMPRESSION & PRESSURE TEST ON TT302041-1

TEST DATE 6-28-79

EFF 77900017 H3.5.2.3

DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESSURE PSIG	Wt. Hg	CHL. IND. DI	DIAL IND. D2					
ACP 0	0	0	0	0	.1000	.1000	(PIN TO HYL CYL. OUT)				
ACP 1	0	0	0	0	.0998	.1003	(PIN TO HYL CYL. IN)				
ACP 2	0	0	4	8.14	.0998	.1002					
ACP 3	2,000	21,834	4	8.14	.1012	.1019					
ACP 4	4,000	43,668	4	8.14	.1033	.1039					
ACP 5	6,000	65,502	4	8.14	.1062	.1074					
ACP 6	8,000	87,336	4	8.14	.1100	.1123					
ACP 7	10,000	109,170	4	8.14	.1122	.1151					
ACP 8	12,000	131,004	4	8.14	.1124	.1157					
ACP 9	2,000	21,834	4	8.14	.1015	.1035					
ACP 10	0	0	4	8.14	.0961	.0962					
ACP 11	0	0	0	0	.0949	.0957	(PIN TO HYL CYL. IN)				
ACP 12	0	0	0	0	.0949	.0949	(PIN TO HYL CYL. OUT)				

TER073



B-720

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Axial Compression with 4 psig Normal Pressure Page 1 of 2

[illegible]

TER073

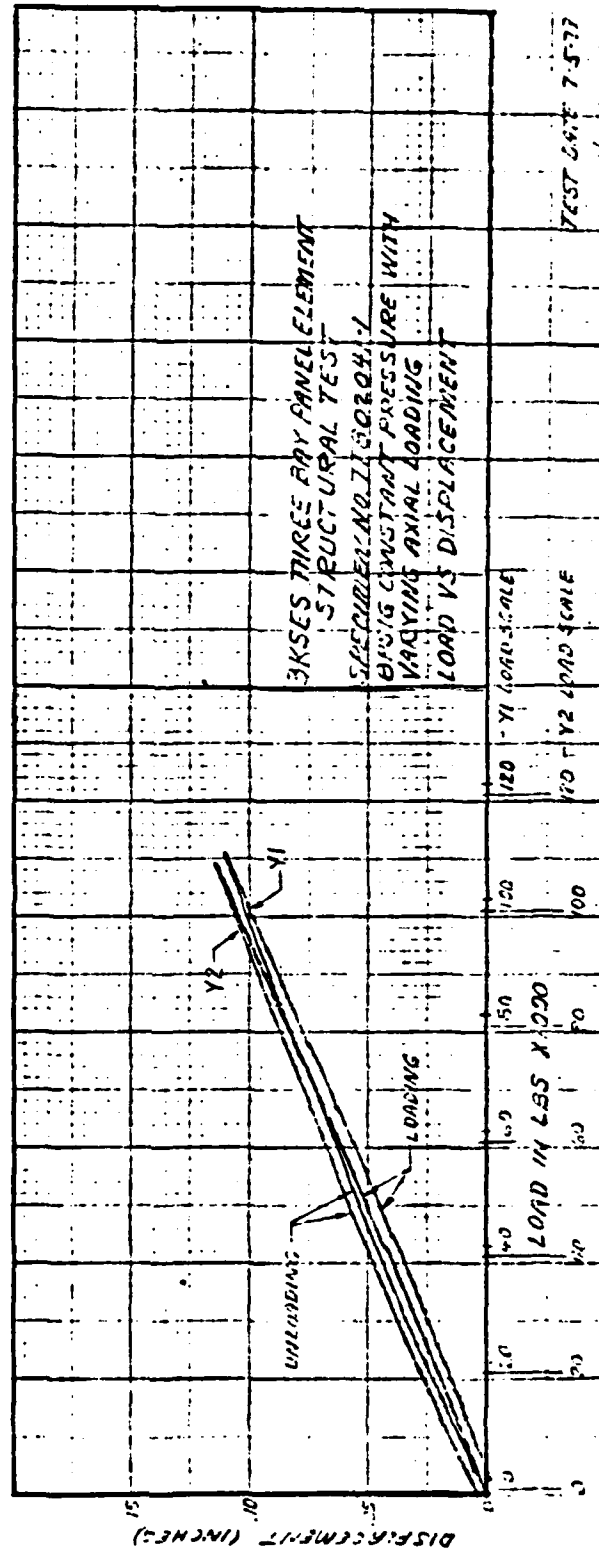
Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Axial Compression with 4 psig Normal Pressure Page 2 of 2

[illegible]

CALCULATED
 THREE BAY ELEMENT COMBINED LOADING TEST
 PANEL AREA = 10.97 IN² AXIAL COMPRESSION PRESSURE TEST ON T502041-1 TEST DATE 7-5-79
 REF T502041-1

DATA NO	NOMINAL STRESS PSI	AXIAL LOAD LBS	PRESSURE PSIG	IN. HG	TIME INH	DIAL IND D1	DIAL IND D2	DIAL IND D3	DIAL IND D4	HYD CYL P.W. IN	HYD CYL P.W. OUT
ACP0	0	0	0	0	.100	.100	.100	.100	.200		
ACP1	0	0	0	0	.100	.100	.100	.100	.200		
ACP12	0	0	8	16.29	.101	.101	.101	.130	.317		
ACP2	2,000	21,834	8	16.29	.103	.103	.103	.129	.213		
ACP3	4,000	43,668	8	16.29	.105	.105	.105	.126	.207		
ACP4	6,000	65,502	8	16.29	.109	.110	.110	.1235	.198		
ACP5	7,000	76,419	8	16.29	.111	.1125	.1125	.1225	.194		
ACP6	8,000	87,336	8	16.29	.1125	.115	.115	.122	.188		
ACP7	9,000	98,253	8	16.29	.114	.1165	.1165	.122	.182		
ACP8	10,000	109,170	8	16.29	.1155	.118	.118	.122	.177		
ACP9	2,000	21,834	8	16.29	.109	.110	.110	.1295	.211		
ACP10	0	0	8	16.29	.105	.105	.105	.132	.220		
ACP11	0	0	0	0	.102	.102	.102	.100	.201	HYD CYL P.W. IN	
ACP12	0	0	0	0	.102	.102	.102	.100	.201	HYD CYL P.W. OUT	

TER073



B-724

TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)

Elastic Axial Compression with 8 psig Normal Pressure Page 1 of 2

DATA No. ACP0 HYD. CYL. PIN OUT ZERO PSIG ZERO LOAD	DATA No. ACP1 HYD. CYL. PIN IN ZERO PSIG ZERO LOAD	DATA No. ACP2 8 PSIG ZERO LOAD	DATA No. ACP3 8 PSIG 20,900 #	DATA No. ACP4 8 PSIG 43,700 #	DATA No. ACP5 8 PSIG 65,500 #	DATA No. ACP6 8 PSIG 76,400 #
83-00000	83-00001	83-00002	83-00003	83-00004	83-00005	83-00006
82-00001	82-00002	82-00003	82-00004	82-00005	82-00006	82-00007
81-00000	81-00001	81-00002	81-00003	81-00004	81-00005	81-00006
80-00001	80-00002	80-00003	80-00004	80-00005	80-00006	80-00007
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78-00001	78-00002	78-00003	78-00004	78-00005	78-00006	78-00007
77-00000	77-00001	77-00002	77-00003	77-00004	77-00005	77-00006
76-00001	76-00002	76-00003	76-00004	76-00005	76-00006	76-00007
75-00000	75-00001	75-00002	75-00003	75-00004	75-00005	75-00006
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09-00000	09-00001	09-00002	09-00003	09-00004	09-00005	09-00006
08-00001	08-00002	08-00003	08-00004	08-00005	08-00006	08-00007
07-00000	07-00001	07-00002	07-00003	07-00004	07-00005	07-00006
06-00001	06-00002	06-00003	06-00004	06-00005	06-00006	06-00007
05-00000	05-00001	05-00002	05-00003	05-00004	05-00005	05-00006
04-00001	04-00002	04-00003	04-00004	04-00005	04-00006	04-00007
03-00000	03-00001	03-00002	03-00003	03-00004	03-00005	03-00006
02-00001	02-00002	02-00003	02-00004	02-00005	02-00006	02-00007
01-00000	01-00001	01-00002	01-00003	01-00004	01-00005	01-00006
00-00001	00-00002	00-00003	00-00004	00-00005	00-00006	00-00007
01-00000	01-00001	01-00002	01-00003	01-00004	01-00005	01-00006
02-00001	02-00002	02-00003	02-00004	02-00005	02-00006	02-00007
03-00000	03-00001	03-00002	03-00003	03-00004	03-00005	03-00006
04-00001	04-00002	04-00003	04-00004	04-00005	04-00006	04-00007
05-00000	05-00001	05-00002	05-00003	05-00004	05-00005	05-00006
06-00001	06-00002	06-00003	06-00004	06-00005	06-00006	06-00007
07-00000	07-00001	07-00002	07-00003	07-00004	07-00005	07-00006
08-00001	08-00002	08-00003	08-00004	08-00005	08-00006	08-00007
09-00000	09-00001	09-00002	09-00003	09-00004	09-00005	09-00006
10-00001	10-00002	10-00003	10-00004	10-00005	10-00006	10-00007
11-00000	11-00001	11-00002	11-00003	11-00004	11-00005	11-00006
12-00001	12-00002	12-00003	12-00004	12-00005	12-00006	12-00007
13-00000	13-00001	13-00002	13-00003	13-00004	13-00005	13-00006
14-00001	14-00002	14-00003	14-00004	14-00005	14-00006	14-00007
15-00000	15-00001	15-00002	15-00003	15-00004	15-00005	15-00006
16-00001	16-00002	16-00003	16-00004	16-00005	16-00006	16-00007
17-00000	17-00001	17-00002	17-00003	17-00004	17-00005	17-00006
18-00001	18-00002	18-00003	18-00004	18-00005	18-00006	18-00007
19-00000	19-00001	19-00002	19-00003	19-00004	19-00005	19-00006
20-00001	20-00002	20-00003	20-00004	20-00005	20-00006	20-00007
21-00000	21-00001	21-00002	21-00003	21-00004	21-00005	21-00006
22-00001	22-00002	22-00003	22-00004	22-00005	22-00006	22-00007
23-00000	23-00001	23-00002	23-00003	23-00004	23-00005	23-00006
24-00001	24-00002	24-00003	24-00004	24-00005	24-00006	24-00007
25-00000	25-00001	25-00002	25-00003	25-00004	25-00005	25-00006
26-00001	26-00002	26-00003	26-00004	26-00005	26-00006	26-00007
27-00000	27-00001	27-00002	27-00003	27-00004	27-00005	27-00006
28-00001	28-00002	28-00003	28-00004	28-00005	28-00006	28-00007
29-00000	29-00001	29-00002	29-00003	29-00004	29-00005	29-00006
30-00001	30-00002	30-00003	30-00004	30-00005	30-00006	30-00007
31-00000	31-00001	31-00002	31-00003	31-00004	31-00005	31-00006
32-00001	32-00002	32-00003	32-00004	32-00005	32-00006	32-00007
33-00000	33-00001	33-00002	33-00003	33-00004	33-00005	33-00006
34-00001	34-00002	34-00003	34-00004	34-00005	34-00006	34-00007
35-00000	35-00001	35-00002	35-00003	35-00004	35-00005	35-00006
36-00001	36-00002	36-00003	36-00004	36-00005	36-00006	36-00007
37-00000	37-00001	37-00002	37-00003	37-00004	37-00005	37-00006
38-00001	38-00002	38-00003	38-00004	38-00005	38-00006	38-00007
39-00000	39-00001	39-00002	39-00003	39-00004	39-00005	39-00006
40-00001	40-00002	40-00003	40-00004	40-00005	40-00006	40-00007
41-00000	41-00001	41-00002	41-00003	41-00004	41-00005	41-00006
42-00001	42-00002	42-				

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Elastic Axial Compression with 8 psig Normal Pressure Page 2 of 2

[illegible]

THREE-BAY ELEMENT COMBINED LOADING TEST
 MIN. COMPRESSION = PRESSURE TEST ON T1902041-1
 REF T1900012 W 3.5 2.3
 TEST DATE 7-9-79

TEST NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS	PRESSURE PSIG	IN/IN	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	HYD. CYL. P.W. IN	HYD. CYL. P.W. OUT
ACP1	0	0	0	0	.100	.100	.100	.200	HYD. CYL. P.W. IN	
ACP2	0	0	0	0	.100	.100	.100	.200	HYD. CYL. P.W. IN	
ACP3	1210	13,200	2	1.07	.102	.102	.120	.209		
ACP4	2420	26,400	4	3.17	.104	.104	.123	.209		
ACP5	3630	39,600	6	12.22	.106	.106	.124	.208		
ACP6	4840	46,200	7	14.25						
ACP7	5440	52,800	8	16.29	.103	.103	.124	.203		
ACP8	6050	59,400	7	18.32	.110	.111	.125	.193		
ACP9	6650	66,000	10	20.36	.111	.112	.125	.195		
ACP10	7250	72,600	11	22.40	.112	.114	.126	.192		
ACP11	7860	79,200	12	24.43	.114	.115	.128	.189		
ACP12	8460	85,800	13	26.47	.115	.116	.130	.185		
ACP13	9070	92,400	14	28.50	.115	.118	.131	.182		
ACP14	9670	99,000	15	30.54	.115	.119	.131	.177		
ACP15	10280	105,600	16	32.58	.117	.119	.132	.172		
ACP16	10880	112,200	17	34.61	.117	.120	.132	.167		
ACP17	11490	118,800	18	36.65	.117	.120	.132	.163		
ACP18	1210	125,400	19	38.68	.117	.120	.132	.155		
ACP19	0	13,200	2	4.07	.104	.105	.132	.218	HYD. CYL. P.W. IN	
ACP20	0	0	0	0	.092	.100	.105	.200	HYD. CYL. P.W. OUT	
* LOADING SEQUENCE 2125 AS FOLLOWS:										
PRESSURE DELETED THEN AXIAL LOAD - THEN DATA TAKEN FOR EACH LOADING INCREMENT										

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Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Proportional Axial Compression and Normal Pressure

Page 1 of 4

DATA No. AC1	DATA No. AC1a	DATA No. AC2	DATA No. AC3	DATA No. AC4	DATA No. AC5	DATA No. AC6
2500 FSL	2500 FSL	2500 FSL	40516	67516	67516	57400
2500 FSL	2500 FSL	13,200	26400	39600	52800	57400
03-00000	03-00000	03-00020	03-00020	03-00020	03-00020	03-00020
02-00000	02-00000	02-00023	02-00023	02-00027	02-00027	02-00031
01-00000	01-00000	01-00018	01-00018	01-00031	01-00031	01-00035
00-00000	00-00000	00-00017	00-00017	00-00021	00-00021	00-00025
74-00000	74-00000	74-00000	74-00000	74-00001	74-00001	74-00001
76-00000	76-00000	76-00031	76-00031	76-00066	76-00066	76-00066
77-00000	77-00000	77-00001	77-00001	77-00001	77-00001	77-00001
76-00001	76-00001	76-00004	76-00004	76-00015	76-00015	76-00021
75-00035	75-00035	75-00042	75-00042	75-00080	75-00080	75-00080
74-00031	74-00031	74-00032	74-00032	74-00034	74-00034	74-00035
73-00062	73-00062	73-00017	73-00017	73-00034	73-00034	73-00035
72-00061	72-00061	72-00027	72-00027	72-00059	72-00059	72-00061
71-00061	71-00061	71-00023	71-00023	71-00045	71-00045	71-00053
70-00063	70-00063	70-00001	70-00001	70-00002	70-00002	70-00002
69-00066	69-00066	69-00032	69-00032	69-00072	69-00072	69-00072
68-00031	68-00031	68-00010	68-00010	68-00042	68-00042	68-00042
67-00000	67-00000	67-00002	67-00002	67-00001	67-00001	67-00001
66-00000	66-00000	66-00023	66-00023	66-00054	66-00054	66-00054
65-00000	65-00000	65-00001	65-00001	65-00002	65-00002	65-00001
64-00000	64-00000	64-00001	64-00001	64-00025	64-00025	64-00029
63-00000	63-00000	63-00002	63-00002	63-00011	63-00011	63-00015
62-00001	62-00001	62-00010	62-00010	62-00024	62-00024	62-00032
61-00002	61-00002	61-00013	61-00013	61-00035	61-00035	61-00035
60-00003	60-00003	60-00025	60-00025	60-00032	60-00032	60-00031
59-00044	59-00044	59-00022	59-00022	59-00013	59-00013	59-00012
58-00001	58-00001	58-00000	58-00000	58-00001	58-00001	58-00000
57-00003	57-00003	57-00026	57-00026	57-00047	57-00047	57-00050
56-00000	56-00000	56-00014	56-00014	56-00017	56-00017	56-00014
55-00001	55-00001	55-00062	55-00062	55-00078	55-00078	55-00074
54-00002	54-00002	54-00000	54-00000	54-00073	54-00073	54-00065
53-00001	53-00001	53-00070	53-00070	53-00047	53-00047	53-00046
52-00001	52-00001	52-00017	52-00017	52-00055	52-00055	52-00043
51-00002	51-00002	51-00072	51-00072	51-00037	51-00037	51-00035
50-00002	50-00002	50-00001	50-00001	50-00024	50-00024	50-00014
49-00002	49-00002	49-00036	49-00036	49-00060	49-00060	49-00044
48-00002	48-00002	48-00059	48-00059	48-00021	48-00021	48-00014
47-00001	47-00001	47-00011	47-00011	47-00045	47-00045	47-00017
46-00002	46-00002	46-00000	46-00000	46-00049	46-00049	46-00040
45-00002	45-00002	45-00063	45-00063	45-00035	45-00035	45-00032
44-00000	44-00000	44-00012	44-00012	44-00037	44-00037	44-00032
43-00004	43-00004	43-00031	43-00031	43-00018	43-00018	43-00012
42-00004	42-00004	42-00011	42-00011	42-00001	42-00001	42-00004
41-00008	41-00008	41-00007	41-00007	42-00059	42-00059	42-00047
40-00008	40-00008	40-00017	40-00017	41-00029	41-00029	41-00025
39-00002	39-00002	39-00004	39-00004	40-00035	40-00035	40-00030
38-00001	38-00001	38-00035	38-00035	39-00060	39-00060	39-00053
37-00004	37-00004	37-00029	37-00029	38-00033	38-00033	38-00032
36-00003	36-00003	36-00099	36-00099	37-00038	37-00038	37-00035
35-00002	35-00002	35-00014	35-00014	36-00096	36-00096	36-00095
34-00002	34-00002	34-00021	34-00021	35-00031	35-00031	35-00028
33-00003	33-00003	33-00037	33-00037	34-00018	34-00018	34-00014
32-00003	32-00003	32-00014	32-00014	33-00040	33-00040	33-00034
31-00004	31-00004	31-00045	31-00045	32-00047	32-00047	32-00054
30-00003	30-00003	30-00049	30-00049	31-00019	31-00019	31-00038
29-00001	29-00001	29-00096	29-00096	30-00020	30-00020	30-00042
28-00001	28-00001	28-00046	28-00046	29-00068	29-00068	29-00043
27-00005	27-00005	27-00040	27-00040	28-00042	28-00042	28-00044
26-00001	26-00001	26-00035	26-00035	27-00033	27-00033	27-00072
25-00001	25-00001	25-00031	25-00031	26-00040	26-00040	26-00011
24-00003	24-00003	24-00062	24-00062	25-00044	25-00044	25-00034
23-00003	23-00003	23-00075	23-00075	24-00041	24-00041	24-00078
22-00004	22-00004	22-00018	22-00018	23-00052	23-00052	23-00080
21-00003	21-00003	21-00011	21-00011	22-00035	22-00035	22-00061
20-00003	20-00003	20-00045	20-00045	21-00045	21-00045	21-00061
19-00000	19-00000	19-00042	19-00042	20-00013	20-00013	20-00041
18-00001	18-00001	18-00021	18-00021	19-00013	19-00013	19-00015
17-00002	17-00002	17-00018	17-00018	18-00018	18-00018	18-00017
16-00001	16-00001	16-00041	16-00041	17-00037	17-00037	17-00016
15-00001	15-00001	15-00032	15-00032	16-00027	16-00027	16-00061
14-00001	14-00001	14-00014	14-00014	15-00033	15-00033	15-00053
13-00001	13-00001	13-00010	13-00010	14-00029	14-00029	14-00034
12-00001	12-00001	12-00014	12-00014	13-00047	13-00047	13-00061
11-00000	11-00000	11-00001	11-00001	12-00043	12-00043	12-00048
10-00001	10-00001	10-00015	10-00015	11-00020	11-00020	11-00041
09-00002	09-00002	09-00022	09-00022	10-00024	10-00024	10-00050
08-00003	08-00003	08-00027	08-00027	09-00024	09-00024	09-00059
07-00002	07-00002	07-00024	07-00024	08-00080	08-00080	08-00056
06-00003	06-00003	06-00026	06-00026	07-00077	07-00077	07-00014
05-00003	05-00003	05-00005	05-00005	06-00017	06-00017	06-00014
04-00002	04-00002	04-00006	04-00006	05-00078	05-00078	05-00012
03-00002	03-00002	03-00006	03-00006	04-00032	04-00032	04-00012
02-00001	02-00001	02-00024	02-00024	03-00032	03-00032	03-00018
01-00002	01-00002	01-00025	01-00025	02-00037	02-00037	02-00013
00-00003	00-00003	00-00024	00-00024	01-00070	01-00070	00-00012
00-00003	00-00003	00-00024	00-00024	00-00070	00-00070	00-00012

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Proportional Axial Compression and Normal Pressure Page 2 of 4

DATA NO. ACP8	DATA NO. ACP9	DATA NO. ACP10	DATA NO. ACP11	DATA NO. ACP12	DATA NO. ACP13	DATA NO. ACP14
10F01G 66,000	11F01G 72,600	12F01G 79,200	13F01G 85,800	14F01G 92,400	15F01G 99,000	16F01G 105,600
83-000077	83-000085	83-000093	83-000101	83-000111	83-000119	83-000124
82-000033	82-000035	82-000038	82-000040	82-000044	82-000044	82-000044
81-000043	81-000045	81-000048	81-000053	81-000059	81-000062	81-000065
80-000030	80-000029	80-000033	80-000034	80-000035	80-000038	80-000039
79-000000	79-000000	79-000000	79-000000	79-000000	79-000000	79-000000
78-000047	78-000046	78-000045	78-000043	78-000043	78-000043	78-000043
77-000001	77-000001	77-000000	77-000004	77-000004	77-000004	77-000004
76-000026	76-000026	76-000030	76-000031	76-000034	76-000034	76-000034
75-000093	75-000094	75-000094	75-000094	75-000094	75-000094	75-000094
74-000008	74-000008	74-000007	74-000011	74-000011	74-000012	74-000012
73-000053	73-000057	73-000064	73-000064	73-000075	73-000075	73-000075
72-000034	72-000091	72-000100	72-000107	72-000114	72-000114	72-000114
71-000064	71-000067	71-000076	71-000081	71-000086	71-000086	71-000086
70-000003	70-000002	70-000003	70-000003	70-000003	70-000003	70-000003
69-000103	69-000111	69-000121	69-000133	69-000143	69-000152	69-000166
68-000038	68-000042	68-000047	68-000051	68-000055	68-000061	68-000066
67-000001	67-000001	67-000001	67-000005	67-000005	67-000006	67-000006
66-000066	66-000094	66-000103	66-000111	66-000119	66-000123	66-000135
65-000001	65-000001	65-000001	65-000001	65-000001	65-000001	65-000001
64-000029	64-000034	64-000033	64-000039	64-000039	64-000042	64-000043
63-000015	63-000015	63-000019	63-000022	63-000025	63-000024	63-000024
62-000033	62-000037	62-000037	62-000042	62-000046	62-000050	62-000052
61-000060	61-000067	61-000073	61-000080	61-000087	61-000093	61-000100
60-000057	60-000075	60-000084	60-000092	60-000094	60-000091	60-000091
59-000001	59-000056	59-000077	59-000083	59-000087	59-000093	59-000093
58-000002	58-000001	58-000001	58-000001	58-000002	58-000002	58-000002
57-000202	57-000215	57-000214	57-000214	57-000211	57-000214	57-000216
56-01359	56-01573	56-01595	56-01595	56-01599	56-01601	56-01603
55-000661	55-000661	55-000663	55-01124	55-01124	55-01129	55-01150
54-000091	54-000095	54-000095	54-000097	54-000093	54-000092	54-000093
53-011211	53-01335	53-01411	53-01513	53-01621	53-01730	53-01835
52-01219	52-01344	52-01444	52-01627	52-01806	52-01973	52-02154
51-000436	51-000487	51-000546	51-000603	51-000663	51-000723	51-000770
50-01058	50-01164	50-01273	50-01393	50-01464	50-01560	50-01647
49-000108	49-000117	49-000120	49-000121	49-000119	49-000115	49-000117
48-011131	48-01234	48-01249	48-01376	48-01454	48-01535	48-01604
47-012111	47-01334	47-01424	47-01500	47-01593	47-01671	47-01752
46-00209	46-00232	46-00246	46-			

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
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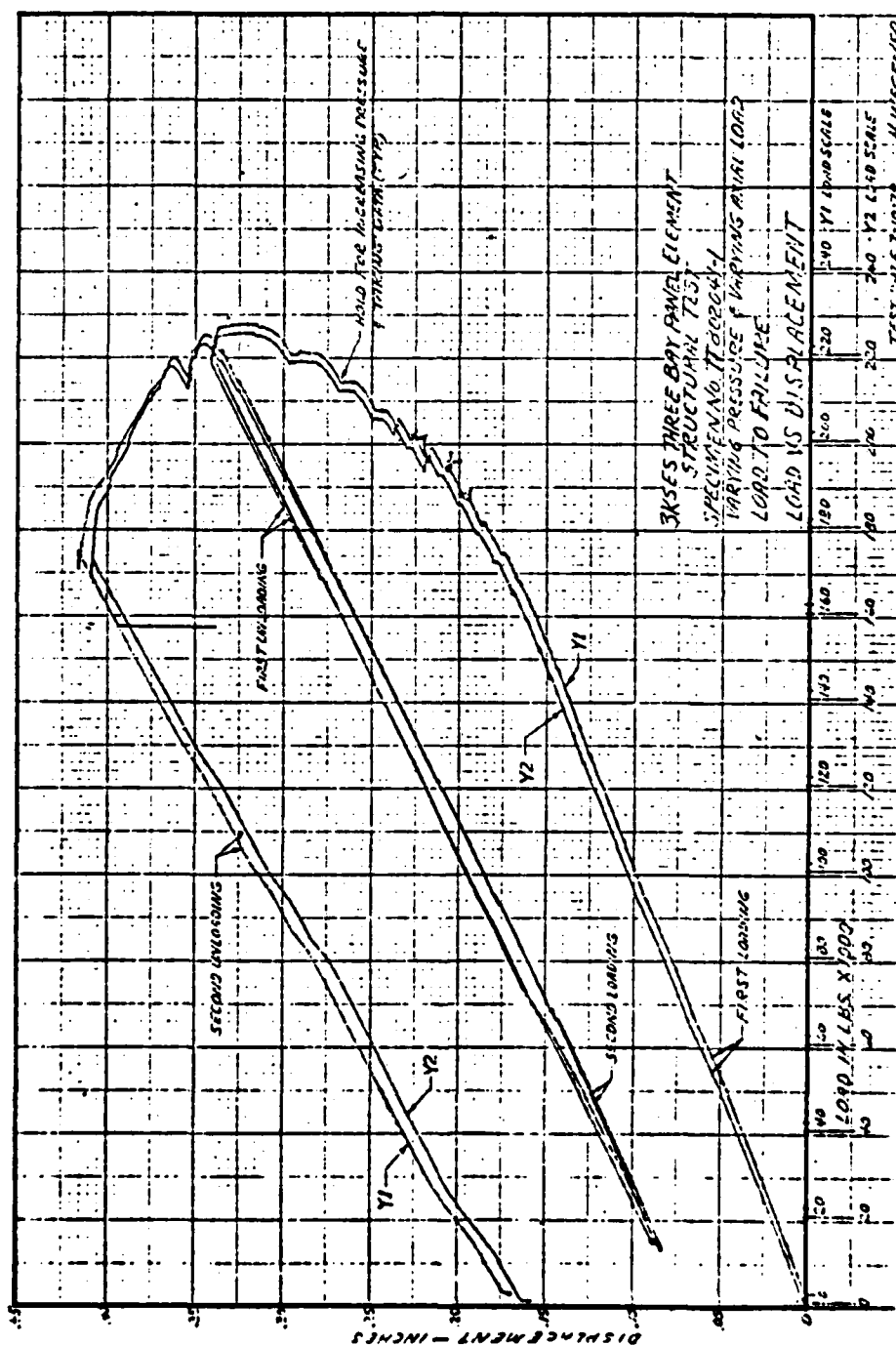
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Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Proportional Axial Compression and Normal Pressure Page 4 of 4

PRE TEST R CAL	POST TEST R CAL
83*00065	83*00066
82*00009	82*00009
81*00022	81*00022
80*00123	80*00123
79*00024	79*00024
78*00040	78*00040
77*00007	77*00008
76*00049	76*00044
75*00057	75*00057
74*00005	74*00006
73*00060	73*00061
72*00037	72*00037
71*00031	71*00031
70*00061	70*00080
69*00003	69*00002
68*00050	68*00050
67*00037	67*00038
66*00000	66*00001
65*00017	65*00017
64*00088	64*00085
63*00137	63*00138
62*00071	62*00071
61*00026	61*00026
60*00003	60*00003
59*00730	59*00586
58*01428	58*01425
57*01425	57*01448
56*01426	56*01424
55*01428	55*00056
54*01431	54*01565
53*01428	53*01408
52*01424	52*01478
51*01432	51*01436
50*01424	50*01454
49*0142	49*01445
48*0142	48*01403
47*01427	47*01403
46*01427	46*01514
45*01427	45*00022
44*01430	44*00066
43*01429	43*01402
42*01429	42*01492
41*01430	41*01511
40*01434	40*01431
39*01427	39*01438
38*01428	38*01445
37*01430	37*01410
36*01427	36*01404
35*01427	35*01438
34*01424	34*01432
33*01428	33*01424
32*01431	32*01402
31*01442	31*01529
30*01424	30*01528
29*01422	29*01436
28*01425	28*01409
27*01420	27*01395
26*01425	26*01405
25*01425	25*01414
24*01425	24*01426
23*01423	23*01431
22*01422	22*01413
21*01425	21*01397
20*01425	20*01495
19*01427	19*01514
18*01423	18*01408
17*01427	17*01412
16*01427	16*01403
15*01425	15*01406
14*01425	14*01408
13*01425	13*01439
12*01425	12*01423
11*01424	11*01400
10*01423	10*01392
09*01422	09*01498
08*01421	08*01501
07*01424	07*01476
06*01422	06*01746
05*01421	05*01937
04*01423	04*01432
03*01422	03*01389
02*01423	02*01473
01*01422	01*01936
00*01421	00*01939
0141360	0141410
0079790	0079790

CALCULATED THREE-BAY ELEMENT COMBINED LOADING TEST
 PANEL AREA = 10.917111² AXIAL COMPRESSION & PRESSURE TEST ON TT832041-1 TEST DATE 7-10-79
 REF. T-100017 103.5, 2.5 LOAD TO FAILURE

DATA NO	NOMINAL STRESS PSI	AXIAL LOAD LBS	PRESS USE PSI*	IN. IN.	DIAL IND. E1	DIAL IND. E2	DIAL IND. U3	DIAL IND. U4						
ACP 1	0	0	0	0	100	100	100	200	HYD CR PN OUT					
ACP 12	0	0	0	0					HYD CR PN IN					
ACP 2	1210	13,200	2	4.07	102	102	125	220						
ACP 3	3450	36,200	10	27.36	112	113	129	201						
ACP 4	6450	68,400	14	28.50	117	119	120	195						
ACP 5	10,350	109,500	18	36.65	119	122	120	162						
ACP 6	11,400	125,400	19	38.68	120	123	127	155						
ACP 7	12,040	132,000	20	40.72	120	123	126	149						
ACP 8	12,600	139,600	21	42.76	120	123	125	140						
ACP 9	13,200	145,200	22	44.79	121	123	124	129						
ACP 10	13,800	151,800	23	46.83	121	124	119	112						
ACP 11	14,510	158,400	24	48.96	121	124	119	090						
ACP 12	15,110	165,000	25	50.90	121	124	105	072						
ACP 13	15,720	171,600	26	52.94	121	124	105	058						
ACP 14	16,320	178,200	27	54.97	120	125	104	044						
ACP 15	16,920	184,800	28	57.01	120	125	117	033						
ACP 16	17,520	191,400	29	59.04	120	125	133	021						
ACP 17	18,140	198,000	30	61.08	119	123	241	078						
ACP 18	18,740	204,600	31	63.12	116	122	274	088						
ACP 19	19,350	211,200	32	65.15	115	121	314	103						
ACP 20	19,950	217,800	33	67.19	112	119	375	141						
ACP 21	20,550	224,400*	34	67.22					** MAX. LOAD PRESSURE ATTAINABLE DATA TAKEN AFTER LOAD DROPPED TO 219,100 LBS					
ACP 22	1210	13,200	2	4.07										
ACP 23	18,140	198,000	30	61.08	102	110	498	260						
ACP 24	19,350	211,200	32	65.15	102	109	515	274						
ACP 25	19,950	217,800	33	67.19	101	108	529	283						
ACP 26	20,340	222,000***	33	67.19	098	104	613	420	*** MAX. LOAD PRESSURE ATTAINABLE DATA TAKEN AFTER LOAD DROPPED TO 213,500 LBS					
*LOADING SEQUENCE WAS AS FOLLOWS:														
AXIAL LOAD APPLIED THEN PRESSURE APPLIED - THEN DATA TAKEN FOR EACH LOADING INCREMENT														



Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Proportional Axial Compression and Normal Pressure to Failure, Page 1 of 4

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Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)

Proportional Axial Compression and Normal Pressure to Failure, Page 2 of 4

DATA No. ACP7	DATA No. ACP8	DATA No. ACP9	DATA No. ACP10	DATA No. ACP11	DATA No. ACP12	DATA No. ACP13
20,551.6	21,151.5	22,151.6	23,051.6	24,051.6	25,051.6	26,051.6
132,000	138,600	145,200	151,800	158,400	165,000	171,600
03-00146	03-00152	03-00158	03-00164	03-00169	03-00175	03-00181
02-00054	02-00059	02-00064	02-00069	02-00074	02-00079	02-00084
01-00076	01-00076	01-00083	01-00087	01-00089	01-00094	01-00099
00-00050	00-00052	00-00052	00-00054	00-00056	00-00057	00-00060
79-00002	79-00001	79-00002	79-00002	79-00003	79-00003	79-00003
78-00186	78-00195	78-00208	78-00222	78-00239	78-00253	78-00265
77-00000	77-00000	77-00000	77-00000	77-00000	77-00000	77-00000
76-00050	76-00062	76-00072	76-00081	76-00099	76-00109	76-00117
75-00208	75-00221	75-00241	75-00260	75-00287	75-00303	75-00322
74-00043	74-00055	74-00063	74-00069	74-00066	74-00061	74-00057
73-00104	73-00100	73-00113	73-00120	73-00125	73-00127	73-00131
72-00147	72-00154	72-00155	72-00164	72-00167	72-00166	72-00167
71-00118	71-00127	71-00133	71-00141	71-00140	71-00154	71-00164
70-00012	70-00015	70-00023	70-00031	70-00059	70-00074	70-00085
69-00200	69-00213	69-00230	69-00254	69-00289	69-00316	69-00342
68-00089	68-00109	68-00100	68-00112	68-00130	68-00144	68-00151
67-00015	67-00018	67-00019	67-00026	67-00036	67-00045	67-00051
66-00171	66-00176	66-00187	66-00196	66-00207	66-00214	66-00234
65-00000	65-00000	65-00012	65-00010	65-00028	65-00035	65-00043
64-00066	64-00066	64-00066	64-00060	64-00050	64-00050	64-00050
63-00044	63-00044	63-00044	63-00048	63-00044	63-00053	63-00052
62-00066	62-00066	62-00073	62-00077	62-00078	62-00062	62-00066
61-00131	61-00139	61-00144	61-00148	61-00157	61-00168	61-00161
60-00117	60-00104	60-00151	60-00147	60-00154	60-00161	60-00176
59-00081	59-00067	59-00075	59-00075	59-00073	59-00076	59-00074
58-00003	58-00004	58-00003	58-00003	58-00003	58-00003	58-00003
57-00331	57-00347	57-00339	57-00334	57-00334	57-00334	57-00330
56-00209	56-00207	56-00215	56-00206	56-00206	56-00206	56-00206
55-00203	55-00206	55-00206	55-00203	55-00203	55-00203	55-00203
54-00129	54-00101	54-00077	54-00054	54-00019	54-00013	54-00005
53-00253	53-00213	53-00205	53-00271	53-00344	53-00350	53-00350
52-00261	52-00315	52-00342	52-00304	52-00397	52-00487	52-00515
51-00159	51-00125	51-00120	51-00133	51-00148	51-00170	51-00174
50-00217	50-00230	50-00231	50-00250	50-00250	50-00270	50-00280
49-00081	49-00108	49-00154	49-00140	49-00140	49-00121	49-00106
48-00200	48-00200	48-00229	48-00259	48-00260	48-00279	48-00280
47-00207	47-00256	47-00256	47-00261	47-00284	47-00308	47-00327
46-00035	46-00398	46-00396	46-00399	46-00390	46-00391	46-00394
45-00130	45-00133	45-00108	45-00134	45-00145	45-00166	45-00174
44-00225	44-00322	44-00329	44-00300	44-00345	44-00347	44-00347
43-00102	43-00139	43-00135	43-00151	43-00163	43-00175	43-00182
42-00040	42-00035	42-00036	42-00042	42-00052	42-00060	42-00060
41-00080	41-00075	41-00063	41-00070	41-00072	41-00073	41-00073
40-00127	40-00119	40-00106	40-00110	40-00131	40-00178	40-00182
39-00030	39-00036	39-00042	39-00042	39-00050	39-00054	39-00054
38-00124	38-00131	38-00140	38-00152	38-00172	38-00190	38-00203
37-00120	37-00128	37-00128	37-00127	37-00117	37-00113	37-00110
36-00115	36-00139	36-00130	36-00161	36-00194	36-00210	36-00215
35-00161	35-00184	35-00195	35-00224	35-00259	35-00297	35-00324
34-00253	34-00260	34-00260	34-00232	34-00271	34-00294	34-00308
33-00113	33-00140	33-00150	33-00155	33-00151	33-00121	33-00117
32-00116	32-00145	32-00157	32-00165	32-00172	32-00190	32-00204
31-00018	31-00021	31-00025	31-00026	31-00046	31-00059	31-00064
30-00020	30-00012	30-00014	30-00040	30-00061	30-00074	30-00081
29-00161	29-00162	29-00204	29-00144	29-00149	29-00129	29-00130
28-00103	28-00144	28-00144	28-00143	28-00142	28-00142	28-00142
27-00111	27-00123	27-00123	27-00114	27-00114	27-00113	27-00110
26-00105	26-00102	26-00101	26-00103	26-00104	26-00103	26-00103
25-00087	25-00075	25-00063	25-00054	25-00045	25-00081	25-00115
24-00114	24-00115	24-00114	24-00096	24-00153	24-00161	24-00160
23-00127	23-00105	23-00101	23-00116	23-00105	23-00117	23-00105
22-00133	22-00140	22-00140	22-00134	22-00179	22-00190	22-00194
21-00147	21-00150	21-00157	21-00175	21-00186	21-00195	21-00200
20-00164	20-00162	20-00166	20-00143	20-00118	20-00030	20-00030
19-00334	19-00406	19-00434	19-00511	19-00724	19-00850	19-00920
18-00252	18-00409	18-00429	18-00495	18-00500	18-00441	18-00404
17-00131	17-00137	17-00159	17-00165	17-00199	17-00172	17-00118
16-00130	16-00125	16-00133	16-00175	16-00193	16-00209	16-00249
15-00121	15-00124	15-00121	15-00121	15-00112	15-00112	15-00112
14-00100	14-00120	14-00132	14-00151	14-00190	14-00204	14-00230
13-00103	13-00101	13-00101	13-00101	13-00103	13-00125	13-00141
12-00107	12-00103	12-00103	12-00104	12-00133	12-00144	12-00147
11-00093	11-00096	11-00093	11-00097	11-00104	11-00103	11-00110
10-00133	10-00142	10-00156	10-00164	10-00177	10-00187	10-00201
09-00007	09-00003	09-00007	09-00022	09-00053	09-00080	09-00080
08-00537	08-00534	08-00522	08-00504	08-00494	08-00463	08-00430
07-00406	07-00400	07-00333	07-00227	07-00218	07-00204	07-00173
06-00380	06-00407	06-00451	06-00462	06-00482	06-00475	06-00464
05-00626	05-00679	05-00765	05-00835	05-00921	05-00931	05-00930
04-00007	04-00032	04-00063	04-00094	04-00090	04-00060	04-00040
03-00152	03-00164	03-00164	03-00160	03-00224	03-00232	03-00242
02-00307	02-00306	02-00305	02-00306	02-00303	02-00298	02-00294
01-00501	01-00477	01-00432	01-00387	01-00326	01-00306	01-00294
00-00232	00-00232	00-00232	00-00232	00-00232	00-00232	00-00232
01-00300	01-00300	01-00300	01-00300	01-00300	01-00300	01-00300
02-00300	02-00300	02-00300	02-00300	02-00300	02-00300	02-00300
03-00300	03-00300	03-00300	03-00300	03-00300	03-00300	03-00300
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26-00300	26-00300	26-00300	26-00300	26-00300	26-00300	26-00300
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39-00300	39-00300	39-00300	39-00300	39-00300	39-00300	39-00300
40-00300	40-00300	40-00300	40-00300	40-00300	40-00300	40-00300
41-00300	41-00300	41-00300				

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Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)

Proportional Axial Compression and Normal Pressure to Failure, Page 3 of 4

DATA No. ACP 14	DATA No. ACP 15	DATA No. ACP 16	DATA No. ACP 17	DATA No. ACP 18	DATA No. ACP 19	DATA No. ACP 20
27 PSI 178,200#	28 PSI 184,800#	29 PSI 191,400#	30 PSI 198,000#	31 PSI 204,600#	32 PSI 211,200#	33 PSI 217,800#
03-00131	03-00131	03-00131	03-00131	03-00131	03-00131	03-00131
02-00067	02-00067	02-00067	02-00067	02-00067	02-00067	02-00067
01-00101	01-00101	01-00101	01-00101	01-00101	01-00101	01-00101
00-00001	00-00001	00-00001	00-00001	00-00001	00-00001	00-00001
14-00017	14-00017	14-00017	14-00017	14-00017	14-00017	14-00017
18-00244	18-00244	18-00244	18-00244	18-00244	18-00244	18-00244
77-00006	77-00006	77-00006	77-00006	77-00006	77-00006	77-00006
16-00126	16-00126	16-00126	16-00126	16-00126	16-00126	16-00126
75-00032	75-00032	75-00032	75-00032	75-00032	75-00032	75-00032
14-00094	14-00094	14-00094	14-00094	14-00094	14-00094	14-00094
13-00142	13-00142	13-00142	13-00142	13-00142	13-00142	13-00142
12-00015	12-00015	12-00015	12-00015	12-00015	12-00015	12-00015
11-00174	11-00174	11-00174	11-00174	11-00174	11-00174	11-00174
10-00093	10-00093	10-00093	10-00093	10-00093	10-00093	10-00093
09-00305	09-00305	09-00305	09-00305	09-00305	09-00305	09-00305
08-00106	08-00106	08-00106	08-00106	08-00106	08-00106	08-00106
07-00055	07-00055	07-00055	07-00055	07-00055	07-00055	07-00055
06-00243	06-00243	06-00243	06-00243	06-00243	06-00243	06-00243
05-00044	05-00044	05-00044	05-00044	05-00044	05-00044	05-00044
04-00057	04-00057	04-00057	04-00057	04-00057	04-00057	04-00057
03-00051	03-00051	03-00051	03-00051	03-00051	03-00051	03-00051
02-00146	02-00146	02-00146	02-00146	02-00146	02-00146	02-00146
01-00146	01-00146	01-00146	01-00146	01-00146	01-00146	01-00146
00-01702	00-01702	00-01702	00-01702	00-01702	00-01702	00-01702
09-00732	09-00732	09-00732	09-00732	09-00732	09-00732	09-00732
08-00003	08-00003	08-00003	08-00003	08-00003	08-00003	08-00003
07-00335	07-00335	07-00335	07-00335	07-00335	07-00335	07-00335
06-10333	06-10333	06-10333	06-10333	06-10333	06-10333	06-10333
05-03926	05-03926	05-03926	05-03926	05-03926	05-03926	05-03926
04-00102	04-00102	04-00102	04-00102	04-00102	04-00102	04-00102
03-00730	03-00730	03-00730	03-00730	03-00730	03-00730	03-00730
02-00246	02-00246	02-00246	02-00246	02-00246	02-00246	02-00246
01-00240	01-00240	01-00240	01-00240	01-00240	01-00240	01-00240
00-00477	00-00477	00-00477	00-00477	00-00477	00-00477	00-00477
09-00021	09-00021	09-00021	09-00021	09-00021	09-00021	09-00021
08-00241	08-00241	08-00241	08-00241	08-00241	08-00241	08-00241
07-00305	07-00305	07-00305	07-00305	07-00305	07-00305	07-00305
06-00304	06-00304	06-00304	06-00304	06-00304	06-00304	06-00304
05-00239	05-00239	05-00239	05-00239	05-00239	05-00239	05-00239
04-00141	04-00141	04-00141	04-00141	04-00141	04-00141	04-00141
03-00172	03-00172	03-00172	03-00172	03-00172	03-00172	03-00172
02-00102	02-00102	02-00102	02-00102	02-00102	02-00102	02-00102
01-00034	01-00034	01-00034	01-00034	01-00034	01-00034	01-00034
00-00018	00-00018	00-00018	00-00018	00-00018	00-00018	00-00018
39-00562	39-00562	39-00562	39-00562	39-00562	39-00562	39-00562
38-00244	38-00244	38-00244	38-00244	38-00244	38-00244	38-00244
37-00153	37-00153	37-00153	37-00153	37-00153	37-00153	37-00153
36-00415	36-00415	36-00415	36-00415	36-00415	36-00415	36-00415
35-00345	35-00345	35-00345	35-00345	35-00345	35-00345	35-00345
34-00250	34-00250	34-00250	34-00250	34-00250	34-00250	34-00250
33-00140	33-00140	33-00140	33-00140	33-00140	33-00140	33-00140
32-00157	32-00157	32-00157	32-00157	32-00157	32-00157	32-00157
31-00085	31-00085	31-00085	31-00085	31-00085	31-00085	31-00085
30-00309	30-00309	30-00309	30-00309	30-00309	30-00309	30-00309
29-00107	29-00107	29-00107	29-00107	29-00107	29-00107	29-00107
28-00030	28-00030	28-00030	28-00030	28-00030	28-00030	28-00030
27-00004	27-00004	27-00004	27-00004	27-00004	27-00004	27-00004
26-00050	26-00050	26-00050	26-00050	26-00050	26-00050	26-00050
25-00132	25-00132	25-00132	25-00132	25-00132	25-00132	25-00132
24-00061	24-00061	24-00061	24-00061	24-00061	24-00061	24-00061
23-00152	23-00152	23-00152	23-00152	23-00152	23-00152	23-00152
22-00018	22-00018	22-00018	22-00018	22-00018	22-00018	22-00018
21-00237	21-00237	21-00237	21-00237	21-00237	21-00237	21-00237
20-00001	20-00001	20-00001	20-00001	20-00001	20-00001	20-00001
19-00006	19-00006	19-00006	19-00006	19-00006	19-00006	19-00006
18-00069	18-00069	18-00069	18-00069	18-00069	18-00069	18-00069
17-00107	17-00107	17-00107	17-00107	17-00107	17-00107	17-00107
16-00205	16-00205	16-00205	16-00205	16-00205	16-00205	16-00205
15-00139	15-00139	15-00139	15-00139	15-00139	15-00139	15-00139
14-00213	14-00213	14-00213	14-00213	14-00213	14-00213	14-00213
13-00303	13-00303	13-00303	13-00303	13-00303	13-00303	13-00303
12-00030	12-00030	12-00030	12-00030	12-00030	12-00030	12-00030
11-00140	11-00140	11-00140	11-00140	11-00140	11-00140	11-00140
10-00217	10-00217	10-00217	10-00217	10-00217	10-00217	10-00217
09-00093	09-00093	09-00093	09-00093	09-00093	09-00093	09-00093
08-00030	08-00030	08-00030	08-00030	08-00030	08-00030	08-00030
07-00153	07-00153	07-00153	07-00153	07-00153	07-00153	07-00153
06-00440	06-00440	06-00440	06-00440	06-00440	06-00440	06-00440
05-00399	05-00399	05-00399	05-00399	05-00399	05-00399	05-00399
04-00014	04-00014	04-00014	04-00014	04-00014	04-00014	04-00014
03-00251	03-00251	03-00251	03-00251	03-00251	03-00251	03-00251
02-00073	02-00073	02-00073	02-00073	02-00073	02-00073	02-00073
01-00003	01-00003	01-00003	01-00003	01-00003	01-00003	01-00003
00-00297	00-00297	00-00297	00-00297	00-00297	00-00297	00-00297
09-00290	09-00290	09-00290	09-00290	09-00290	09-00290	09-00290
08-00190	08-00190	08-00190	08-00190	08-00190	08-00190	08-00190

TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)
Proportional Axial Compression and Normal Pressure to Failure, Page 4 of 4

DATA No. ACP 21

32 PSIG

219,700#

DATA TAKEN AT

LOAD DRIFTED FROM 13,200#

MAX. OF 222,000#

DATA No. ACP 21

30 PSIG

188,000#

DATA TAKEN AT

LOAD DRIFTED FROM 13,200#

MAX. OF 222,000#

DATA No. ACP 23

32 PSIG

211,300#

DATA TAKEN AT

LOAD DRIFTED FROM 13,200#

MAX. OF 222,000#

DATA No. ACP 24

33 PSIG

217,600#

DATA TAKEN AT

LOAD DRIFTED FROM 13,200#

MAX. OF 222,000#

DATA No. ACP 25

33 PSIG

217,600#

DATA TAKEN AT

LOAD DRIFTED FROM 13,200#

MAX. OF 222,000#

DATA No. ACP 26

33 PSIG

217,600#

DATA TAKEN AT

LOAD DRIFTED FROM 13,200#

MAX. OF 222,000#

MAX. OF 222,000#

MAX. OF 222,000#

MAX. OF 222,000#

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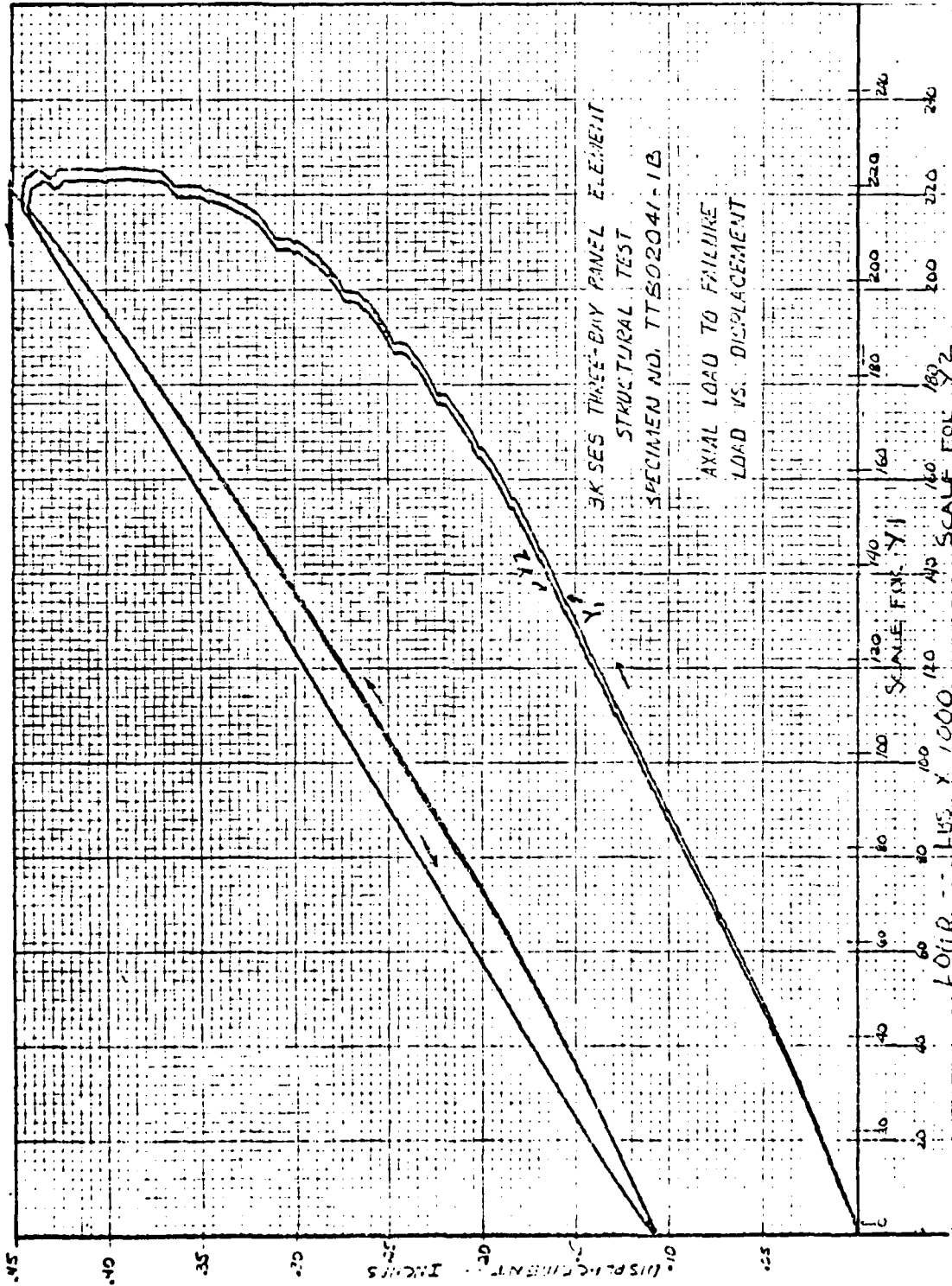
MAX. OF 222,000#

MAX. OF 222,000#

MAX. OF 222,000#

TEST DATE 9-6-79

MAX LOAD



AD-A087 438

ROHR MARINE INC NATIONAL CITY CA
SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)
MAY 80

F/6 13/10

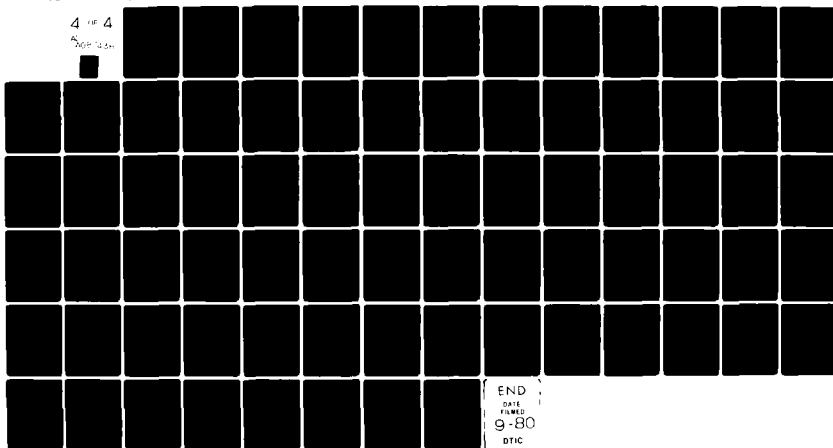
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NL

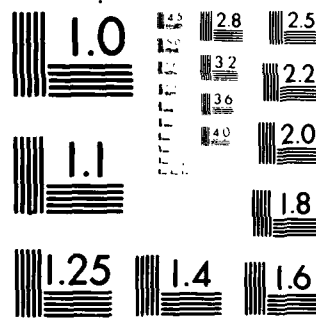
UNCLASSIFIED

4 OF 4

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END
DATE
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9-80
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Test Data - 3-Bay Element No. TT802041-1B (All stiffeners straight)
Axial Compression to Failure Page 1 of 3

[illegible]

Test Data - 3-Bay Element No. TT802041-1B (All stiffeners straight)

Page 2 of 3

B-742

TERO73

Test Data - 3-Bay Element No. TT802041-1B (All stiffeners straight)

Axial Compression to Failure

Page 3 of 3

DATA NO. AC 14 197,420 LBS	DATA NO. AC 15 208,300 LBS	DATA NO. AC 16 214,360 LBS	DATA NO. AC 18 2&R LOAD	POST FAIL LOAD	PRE TEST R-CAL	POST TEST R-CAL
83-00137	83-00162	83-00193	83-00493	83-00252	83-00313	83-00313
82-00014	82-00014	82-00018	82-00019	82-00887	82-00184	82-00185
81-00020	81-00021	81-00023	81-00023	81-00064	81-00194	81-00200
80-00019	80-00023	80-00028	80-00028	80-00072	80-00356	80-00357
79-00052	79-00064	79-00091	79-00014	79-00037	79-00134	79-00134
78-00014	78-00097	78-00113	78-00008	78-00034	78-00152	78-00153
77-00026	77-00043	77-00065	77-00035	77-00093	77-00093	77-00093
76-00017	76-00008	76-00010	76-00033	76-00000	76-00080	76-00082
75-00006	75-00036	75-00094	75-00187	75-00071	75-00206	75-00206
74-00042	74-00037	74-00034	74-00018	74-00059	74-00043	74-00042
73-00042	73-00051	73-00085	73-00140	73-00467	73-00372	73-00373
72-00049	72-00044	72-00121	72-00186	72-00010	72-00225	72-00227
71-00052	71-00067	71-00100	71-00149	71-00045	71-00380	71-00382
70-00004	70-00014	70-00043	70-00064	70-00044	70-00105	70-00106
69-00040	69-00103	69-00188	69-00282	69-00094	69-00154	69-00155
68-00012	68-00045	68-00107	68-00249	68-01096	68-00044	68-00047
67-00036	67-00029	67-00079	67-00002	67-00095	67-00147	67-00148
66-00028	66-00145	66-00222	66-00141	66-00045	66-00158	66-00159
65-00024	65-00035	65-00080	65-00003	65-00076	65-00075	65-00076
64-00004	64-00004	64-00004	64-00004	64-00030	64-00230	64-00230
63-00002	63-00001	63-00001	63-00001	63-00729	63-00334	63-00334
62-00006	62-00008	62-00008	62-00008	62-00067	62-00176	62-00177
61-00161	61-00184	61-00216	61-00107	61-01012	61-00054	61-00054
60-01061	60-02071	60-02183	60-00002	60-02084	60-01794	60-02082
59-00052	59-00031	59-00025	59-00036	59-00040	59-00064	59-00071
58-00002	58-00003	58-00002	58-00002	58-00002	58-01430	58-01433
57-01637	57-01774	57-01956	57-00341	57-02489	57-01430	57-01024
56-00241	56-00154	56-00041	56-00275	56-01795	56-01427	56-01329
55-01443	55-01603	55-02030	55-01276	55-00413	55-01826	55-01642
54-01644	54-01703	54-01442	54-00332	54-02700	54-01829	54-01634
53-02003	53-02508	53-02639	53-00057	53-00444	53-01428	53-00994
52-00195	52-00224	52-00051	52-00039	52-02099	52-01427	52-02503
51-00415	51-00153	51-00076	51-00105	51-00237	51-01431	51-01199
50-02730	50-03143	50-03660	50-01087	50-04343	50-01424	50-02094
49-01623	49-01794	49-02045	49-00310	49-02724	49-01427	49-01259
48-00232	48-00525	48-01059	48-00219	48-02245	48-01426	48-02920
47-02293	47-02581	47-02760	47-00675	47-00121	47-01424	47-01304
46-01693	46-01638	46-02049	46-00296	46-02548	46-01425	46-01096
45-01717	45-01874	45-01844	45-01026	45-00264	45-01426	45-01690
44-00003	44-00091	44-00089	44-00335	44-02271	44-01428	44-03704
43-01611	43-02202	43-02844	43-03467	43-09144	43-01427	43-07683
42-02656	42-03550	42-06430	42-12572	42-18659	42-01429	42-17245
41-02263	41-01601	41-00229	41-02571	41-02260	41-01424	41-02903
40-00000	40-00000	40-00000	40-00000	40-00000	40-00000	40-00000
39-00000	39-00000	39-00000	39-00000	39-00000	39-00000	39-00000
38-00000	38-00000	38-00000	38-00000	38-00000	38-00000	38-00000
37-01098	37-01194	37-01505	37-01984	37-05231	37-01429	37-03775
36-00000	36-00000	36-00000	36-00000	36-00000	36-00000	36-00000
35-00000	35-00000	35-00000	35-00000	35-00000	35-00000	35-00000
34-00000	34-00000	34-00000	34-00000	34-00000	34-00000	34-00000
33-00000	33-00000	33-00000	33-00000	33-00000	33-00000	33-00000
32-00000	32-00000	32-00000	32-00000	32-00000	32-00000	32-00000
31-02446	31-02680	31-00010	31-00372	31-02631	31-01432	31-04084
30-02595	30-03267	30-04962	30-05493	30-07253	30-01424	30-05796
29-00308	29-00475	29-01433	29-00149	29-18438	29-01433	29-16998
28-00985	28-01235	28-02337	28-06098	28-05218	28-01429	28-02739
27-00563	27-00531	27-00145	27-00554	27-02302	27-01426	27-03740
26-01046	26-00484	26-00114	26-00021	26-01071	26-01427	26-00396
25-00000	25-00000	25-00000	25-00000	25-00000	25-00000	25-00000
24-00000	24-00000	24-00000	24-00000	24-00000	24-00000	24-00000
23-00000	23-00000	23-00000	23-00000	23-00000	23-00000	23-00000
22-00000	22-00000	22-00000	22-00000	22-00000	22-00000	22-00000
21-01039	21-02275	21-02724	21-02003	21-03476	21-01424	21-02007
20-00000	20-00000	20-00000	20-00000	20-00000	20-00000	20-00000
19-00000	19-00000	19-00000	19-00000	19-00000	19-00000	19-00000
18-00000	18-00000	18-00000	18-00000	18-00000	18-00000	18-00000
17-00000	17-00000	17-00000	17-00000	17-00000	17-00000	17-00000
16-01215	16-00690	16-00117	16-00066	16-02619	16-01429	16-00062
15-00000	15-00000	15-00000	15-00000	15-00000	15-01422	15-00000
14-00000	14-00000	14-00000	14-00000	14-00000	14-00000	14-00000
13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000
12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000
11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000
10-01092	10-02339	10-02884	10-03078	10-06051	10-01421	10-04044
09-00000	09-00000	09-00000	09-00000	09-00000	09-01423	09-01414
08-01901	08-01781	08-00889	08-00286	08-02412	08-00350	08-00350
07-01601	07-01760	07-01963	07-00292	07-02662	07-01423	07-01197
06-00000	06-00000	06-00000	06-00000	06-00000	06-01423	06-00000
05-01206	05-02120	05-02451	05-00554	05-00104	05-01422	05-01322
04-01998	04-03285	04-04215	04-01974	04-09158	04-01427	04-03076
03-00000	03-00000	03-00000	03-00000	03-00000	03-01423	03-00000
02-01852	02-01891	02-02140	02-00427	02-02617	02-01424	02-01424
01-01143	01-02091	01-02450	01-00091	01-00012	01-01424	01-01424
00-00000	00-00000	00-00000	00-00000	00-00000	00-01423	00-00000
00-00000	00-00000	00-00000	00-00000	00-00000	00-00000	00-00000
00-00000	00-00000	00-00000	00-00000	00-00000	00-00000	00-00000

THREE-BAY ELEMENT COMBINED LOADING TEST

NORMAL PRESSURE TEST W/TT 802041-3

REF ID: A66177

DATA NO.	PRESSURE		DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4
	PSIG	IN. Hg.				
F1	0	0	—	—	.100	.100
P2	2	4.07	—	—	.132	.120
P3	4	8.14	—	—	.137	.127
P4	6	12.22	—	—	.140	.130
P5	8	16.29	—	—	.142	.131
P6	2	4.07	—	—	.135	.127
P7	9	18.32	—	—	.143	.129
P8	10	20.36	—	—	.145	.127
P9	11	22.40	—	—	.146	.126
P10	12	24.43	—	—	.147	.124
P11	2	4.07	—	—	.135	.128
P12	13	26.47	—	—	.148	.123
P13	14	28.50	—	—	.150	.122
P14	15	30.54	—	—	.151	.123
P15	16	32.58	—	—	.153	.124
P16	17	34.61	—	—	.154	.125
P17	18	36.65	—	—	.156	.127
P18	19	38.68	—	—	.156	.128
P19	2	4.07	—	—	.138	.134
P20	0	0	—	—	.105	.107

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Normal Pressure Page 1 of 4

Page 1 of 4

DATA NO. P1	DATA NO. P2	DATA NO. P3	DATA NO. P4	DATA NO. P5	DATA NO. P6	DATA NO. P7
0 ASIS	2 PSIG	UPSIG	PSIG	8 PSIG	2 PSIG	9PSIG
03-00000	43-00030	03-00043	03-00043	03-00043	03-00043	03-00043
12-00001	42-00031	02-00042	02-00042	02-00042	02-00042	02-00042
01-00000	41-00032	01-00041	01-00041	01-00041	01-00041	01-00041
00-00001	40-00033	00-00040	00-00040	00-00040	00-00040	00-00040
79-00001	79-00030	79-00043	79-00043	79-00043	79-00043	79-00043
78-00001	78-00031	78-00042	78-00042	78-00042	78-00042	78-00042
77-00000	77-00032	77-00041	77-00041	77-00041	77-00041	77-00041
76-00000	76-00033	76-00040	76-00040	76-00040	76-00040	76-00040
75-00000	75-00034	75-00041	75-00041	75-00041	75-00041	75-00041
74-00000	74-00035	74-00042	74-00042	74-00042	74-00042	74-00042
73-00001	73-00036	73-00043	73-00043	73-00043	73-00043	73-00043
72-00001	72-00037	72-00044	72-00044	72-00044	72-00044	72-00044
71-00001	71-00038	71-00045	71-00045	71-00045	71-00045	71-00045
70-00002	70-00039	70-00046	70-00046	70-00046	70-00046	70-00046
69-00002	69-00040	69-00049	69-00049	69-00049	69-00049	69-00049
68-00001	68-00041	68-00050	68-00050	68-00050	68-00050	68-00050
67-00000	67-00042	67-00051	67-00051	67-00051	67-00051	67-00051
66-00000	66-00043	66-00052	66-00052	66-00052	66-00052	66-00052
65-00000	65-00044	65-00053	65-00053	65-00053	65-00053	65-00053
64-00000	64-00045	64-00054	64-00054	64-00054	64-00054	64-00054
63-00001	63-00046	63-00055	63-00055	63-00055	63-00055	63-00055
62-00001	62-00047	62-00056	62-00056	62-00056	62-00056	62-00056
61-00001	61-00048	61-00057	61-00057	61-00057	61-00057	61-00057
60-00003	60-00049	60-00058	60-00058	60-00058	60-00058	60-00058
59-00007	59-00050	59-00059	59-00059	59-00059	59-00059	59-00059
58-00001	58-00051	58-00060	58-00060	58-00060	58-00060	58-00060
57-00002	57-00052	57-00061	57-00061	57-00061	57-00061	57-00061
56-00001	56-00053	56-00062	56-00062	56-00062	56-00062	56-00062
55-00001	55-00054	55-00063	55-00063	55-00063	55-00063	55-00063
54-00003	54-00055	54-00064	54-00064	54-00064	54-00064	54-00064
53-00001	53-00056	53-00065	53-00065	53-00065	53-00065	53-00065
52-00001	52-00057	52-00066	52-00066	52-00066	52-00066	52-00066
51-00001	51-00058	51-00067	51-00067	51-00067	51-00067	51-00067
50-00003	50-00059	50-00068	50-00068	50-00068	50-00068	50-00068
49-00002	49-00060	49-00069	49-00069	49-00069	49-00069	49-00069
48-00001	48-00061	48-00070	48-00070	48-00070	48-00070	48-00070
47-00003	47-00062	47-00071	47-00071	47-00071	47-00071	47-00071
46-00001	46-00063	46-00072	46-00072	46-00072	46-00072	46-00072
45-00002	45-00064	45-00073	45-00073	45-00073	45-00073	45-00073
44-00003	44-00065	44-00074	44-00074	44-00074	44-00074	44-00074
43-00001	43-00066	43-00075	43-00075	43-00075	43-00075	43-00075
42-00001	42-00067	42-00076	42-00076	42-00076	42-00076	42-00076
41-00003	41-00068	41-00077	41-00077	41-00077	41-00077	41-00077
40-00000	40-00069	40-00078	40-00078	40-00078	40-00078	40-00078
39-00007	39-00070	39-00079	39-00079	39-00079	39-00079	39-00079
38-00000	38-00071	38-00080	38-00080	38-00080	38-00080	38-00080
37-00002	37-00072	37-00081	37-00081	37-00081	37-00081	37-00081
36-00000	36-00073	36-00082	36-00082	36-00082	36-00082	36-00082
35-00003	35-00074	35-00083	35-00083	35-00083	35-00083	35-00083
34-00005	34-00075	34-00084	34-00084	34-00084	34-00084	34-00084
33-00000	33-00076	33-00085	33-00085	33-00085	33-00085	33-00085
32-00007	32-00077	32-00086	32-00086	32-00086	32-00086	32-00086
31-00000	31-00078	31-00087	31-00087	31-00087	31-00087	31-00087
30-00004	30-00079	30-00088	30-00088	30-00088	30-00088	30-00088
29-00001	29-00080	29-00089	29-00089	29-00089	29-00089	29-00089
28-00000	28-00081	28-00090	28-00090	28-00090	28-00090	28-00090
27-00001	27-00082	27-00091	27-00091	27-00091	27-00091	27-00091
26-00003	26-00083	26-00092	26-00092	26-00092	26-00092	26-00092
25-00001	25-00084	25-00093	25-00093	25-00093	25-00093	25-00093
24-00003	24-00085	24-00094	24-00094	24-00094	24-00094	24-00094
23-00000	23-00086	23-00095	23-00095	23-00095	23-00095	23-00095
22-00003	22-00087	22-00096	22-00096	22-00096	22-00096	22-00096
21-00003	21-00088	21-00097	21-00097	21-00097	21-00097	21-00097
20-00001	20-00089	20-00098	20-00098	20-00098	20-00098	20-00098
19-00003	19-00090	19-00099	19-00099	19-00099	19-00099	19-00099
18-00000	18-00091	18-00100	18-00100	18-00100	18-00100	18-00100
17-00000	17-00092	17-00101	17-00101	17-00101	17-00101	17-00101
16-00003	16-00093	16-00102	16-00102	16-00102	16-00102	16-00102
15-00001	15-00094	15-00103	15-00103	15-00103	15-00103	15-00103
14-00000	14-00095	14-00104	14-00104	14-00104	14-00104	14-00104
13-00007	13-00096	13-00105	13-00105	13-00105	13-00105	13-00105
12-00002	12-00097	12-00106	12-00106	12-00106	12-00106	12-00106
11-00001	11-00098	11-00107	11-00107	11-00107	11-00107	11-00107
10-00002	10-00099	10-00108	10-00108	10-00108	10-00108	10-00108
09-00001	09-00100	09-00109	09-00109	09-00109	09-00109	09-00109
08-00002	08-00101	08-00110	08-00110	08-00110	08-00110	08-00110
07-00001	07-00102	07-00111	07-00111	07-00111	07-00111	07-00111
06-00002	06-00103	06-00112	06-00112	06-00112	06-00112	06-00112
05-00002	05-00104	05-00113	05-00113	05-00113	05-00113	05-00113
04-00003	04-00105	04-00114	04-00114	04-00114	04-00114	04-00114
03-00001	03-00106	03-00115	03-00115	03-00115	03-00115	03-00115
02-00002	02-00107	02-00116	02-00116	02-00116	02-00116	02-00116
01-00003	01-00108	01-00117	01-00117	01-00117	01-00117	01-00117
00-00001	00-00109	00-00118	00-00118	00-00118	00-00118	00-00118
00-00001	00-00110	00-00119	00-00119	00-00119	00-00119	00-00119
00-00001	00-00111	00-00120	00-00120	00-00120	00-00120	00-00120
00-00001	00-00112	00-00121	00-00121	00-00121	00-00121	00-00121
00-00001	00-00113	00-00122	00-00122	00-00122	00-00122	00-00122
00-00001	00-00114	00-00123	00-00123	00-00123	00-00123	00-00123
00-00001	00-00115	00-00124	00-00124	00-00124	00-00124	00-00124
00-00001	00-00116	00-00125	00-00125	00-00125	00-00125	00-00125
00-00001	00-00117	00-00126	00-00126	00-00126	00-00126	00-00126
00-00001	00-00118	00-00127	00-00127	00-00127	00-00127	00-00127
00-00001	00-00119	00-00128	00-00128	00-00128	00-00128	00-00128
00-00001	00-00120	00-00129	00-00129	00-00129	00-00129	00-00129
00-00001	00-00121	00-00130	00-00130	00-00130	00-00130	00-00130
00-00001	00-00122	00-00131	00-00131	00-00131	00-00131	00-00131
00-00001	00-00123	00-00132	00-00132	00-00132	00-00132	00-00132
00-00001	00-00124	00-00133	00-00133	00-00133	00-00133	00-00133
00-00001	00-00125	00-00134	00-00134	00-00134	00-00134	00-00134
00-00001	00-00126	00-00135	00-00135	00-00135	00-00135	00-00135
00-00001	00-00127	00-00136	00-00136	00-00136	00-00136	00-00136
00-00001	00-00128	00-00137	00-00137	00-00137	00-00137	00-00137
00-00001	00-00129	00-00138	00-00138	00-00138	00-00138	00-00138
00-00001	00-00130	00-00139	00-00139	00-00139	00-00139	00-00139
00-00001	00-00131	00-00140	00-00140	00-00140	00-00140	00-00140
00-00001	00-00132	00-00141	00-00141	00-00141	00-00141	00-00141
00-00001	00-00133	00-00142	00-00142	00-00142	00-00142	00-00142
00-00001	00-00134	00-00143	00-00143	00-00143	00-00143	00-00143
00-00001	00-00135	00-00144	00-00144	00-00144	00-00144	00-00144
00-00001	00-00136	00-00145	00-00145	00-00145	00-00145	00-00145
00-00001	00-00137	00-00146	00-00146	00-00146	00-00146	00-00146
00-00001	00-00138	00-00147	00-00147	00-00147	00-00147	00-00147
00-00001	00-00139	00-00148	00-00148	00-00148	00-00148	00-00148
00-00001	00-00140	00-00149	00-00149	00-00149	00-00149	00-00149
00-00001	00-00141	00-00150	00-00150	00-00150	00-00150	00-00150
00-00001	00-00142	00-00151	00-00151	00-00151	00-00151	00-00151
00-00001	00-00143	00-00152	00-00152	00-00152	00-00152	00-00152
00-00001	00-00144	00-00153	00-00153	00-00153	00-00153	00-00153
00-00001	00-00145	00-00154	00-00154	00-00154	00-00154	00-00154
00-00001	00-00146	00-00155	00-00155	00-00155	00-00155	00-00155
00-00001	00-00147	00-00156	00-00156	00-00156	00-00156	00-00156
00-00001	00-00148	00-00157	00-00157	00-00157	00-00157	00-00157
00-00001	00-00149	00-00158	00-00158	00-00158	00-00158	00-00158
00-00001	00-00150	00-00159	00-00159	00-00159	00-00159	00-00159
00-00001	00-00151	00-00160	00-00160	00-00160	00-00160	00-00160
00-00001	00-00152	00-00161	00-00161	00-00161	00-00161	00-00161
00-00001	00-00153	00-00162	00-00162	00-00162	00-00162	00-00162
00-00001	00-00154	00-00163	00-00163	00-00163	00-00163	00-00163

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Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Normal Pressure

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DATA No. P8	DATA No. P9	DATA No. P10	DATA No. P11	DATA No. P12	DATA No. P13	DATA No. P14
10 PSIG	11 PSIG	12 PSIG	2 PSIG	13 PSIG	14 PSIG	15 PSIG
03-00094	03-00102	03-00110	03-00046	03-00117	03-00126	03-00132
02-00051	02-00054	02-00056	02-00042	02-00057	02-00058	02-00054
01-00059	01-00062	01-00063	01-00035	01-00071	01-00075	01-00075
00-00044	00-00044	00-00043	00-00035	00-00049	00-00052	00-00053
79-00004	79-00005	79-00004	79-00004	79-00006	79-00009	79-00009
78-00004	78-00012	78-00012	78-00003	78-00013	78-00013	78-00013
77-00002	77-00002	77-00002	77-00001	77-00007	77-00006	77-00007
76-00026	76-00030	76-00031	76-00003	76-00035	76-00037	76-00039
75-00012	75-00012	75-00014	75-00007	75-00050	75-00054	75-00054
74-00009	74-00011	74-00012	74-00009	74-00014	74-00013	74-00014
73-00000	73-00009	73-00013	73-00002	73-00017	73-00016	73-00016
72-00014	72-00012	72-00013	72-00002	72-00014	72-00014	72-00014
71-00008	71-00002	71-00001	71-00007	71-00005	71-00010	71-00010
70-00004	70-00005	70-00006	70-00006	70-00006	70-00005	70-00005
69-00120	69-00124	69-00137	69-00052	69-00146	69-00156	69-00164
68-00030	68-00034	68-00034	68-00011	68-00038	68-00043	68-00043
67-00004	67-00004	67-00006	67-00004	67-00007	67-00008	67-00008
66-00104	66-00112	66-00115	66-00004	66-00127	66-00136	66-00145
65-00004	65-00008	65-00008	65-00008	65-00010	65-00010	65-00011
64-00035	64-00037	64-00039	64-00026	64-00042	64-00044	64-00046
63-00027	63-00031	63-00031	63-00033	63-00033	63-00035	63-00036
62-00045	62-00044	62-00044	62-00026	62-00056	62-00059	62-00064
61-00073	61-00032	61-00027	61-00030	61-00046	61-00043	61-00043
60-00003	60-00004	60-00003	60-00004	60-00003	60-00004	60-00003
59-00071	59-00036	59-00037	59-00066	59-00034	59-00036	59-00039
58-00003	58-00002	58-00001	58-00001	58-00002	58-00000	58-00000
57-00255	57-00039	57-00023	57-00015	57-00038	57-00037	57-00045
56-00002	56-00048	56-00079	56-00006	56-00106	56-00126	56-00134
55-00386	55-00063	55-00046	55-00006	55-00023	55-00049	55-00056
54-00327	54-00036	54-00069	54-00026	54-00050	54-00047	54-00052
53-00003	53-00110	53-00123	53-00021	53-00135	53-00143	53-00144
52-00043	52-00073	52-00032	52-00014	52-00023	52-00044	52-00049
51-00073	51-00070	51-00059	51-00010	51-00040	51-00043	51-00040
50-00392	50-00024	50-00040	50-00009	50-00045	50-00050	50-00053
49-00304	49-00044	49-00031	49-00020	49-00020	49-00055	49-00050
48-00581	48-00061	48-00074	48-00004	48-00021	48-00041	48-00042
47-00084	47-00000	47-00111	47-00010	47-00124	47-00132	47-00136
46-00214	46-00044	46-00027	46-00002	46-00033	46-00032	46-00031
45-00047	45-00072	45-00041	45-00003	45-00013	45-00047	45-00078
44-00085	44-00052	44-00093	44-00006	44-00086	44-00141	44-00142
43-00120	43-00012	43-00013	43-00000	43-00144	43-00155	43-00166
42-00003	42-00034	42-00073	42-00025	42-00070	42-00072	42-00073
41-00040	41-00044	41-00075	41-00019	41-00049	41-00052	41-00054
40-00559	40-00020	40-00076	40-00011	40-00036	40-00075	40-00084
39-00046	39-00033	39-00068	39-00077	39-00043	39-00045	39-00047
38-00141	38-00044	38-00056	38-00003	38-00162	38-00170	38-00174
37-00054	37-00056	37-00059	37-00023	37-00062	37-00064	37-00066
36-00079	36-00047	36-00014	36-00146	36-00080	36-00048	36-00048
35-00050	35-00072	35-00083	35-00031	35-00047	35-00048	35-00048
34-00076	34-00056	34-00035	34-00050	34-00106	34-00104	34-00104
33-00079	33-00064	33-00047	33-00013	33-00103	33-00113	33-00119
32-00212	32-00230	32-00246	32-00067	32-00262	32-00262	32-00262
31-00597	31-00039	31-00061	31-00021	31-00072	31-00074	31-00074
30-00076	30-00041	30-00102	30-00014	30-00104	30-00133	30-00133
29-00047	29-00033	29-00017	29-00020	29-00119	29-00119	29-00119
28-00056	28-00050	28-00144	28-00021	28-00121	28-00133	28-00133
27-00049	27-00074	27-00077	27-00030	27-00082	27-00086	27-00086
26-00110	26-00114	26-00125	26-00000	26-00133	26-00140	26-00147
25-00082	25-00046	25-00070	25-00004	25-00075	25-00084	25-00084
24-00072	24-00055	24-00075	24-00009	24-00027	24-00049	24-00049
23-00046	23-00020	23-00001	23-00027	23-00144	23-00141	23-00141
22-00001	22-00176	22-00173	22-00005	22-00176	22-00179	22-00179
21-00226	21-00244	21-00262	21-00078	21-00281	21-00300	21-00321
20-00000	20-00046	20-00102	20-00031	20-00109	20-00162	20-00162
19-00064	19-00072	19-00073	19-00024	19-00012	19-00065	19-00065
18-00065	18-00040	18-00026	18-00011	18-00100	18-00108	18-00108
17-00029	17-00019	17-00006	17-00010	17-00046	17-00114	17-00114
16-00100	16-00020	16-00013	16-00002	16-00227	16-00241	16-00254
15-00067	15-00049	15-00072	15-00034	15-00074	15-00076	15-00077
14-00070	14-00044	14-00010	14-00130	14-00088	14-00098	14-00101
13-00050	13-00071	13-00070	13-00011	13-00046	13-00043	13-00043
12-00501	12-00056	12-00013	12-00006	12-00066	12-00073	12-00073
11-00019	11-00040	11-00010	11-00001	11-00051	11-00010	11-00009
10-00193	10-00016	10-00016	10-00004	10-00108	10-00201	10-00215
09-00040	09-00032	09-00049	09-00009	09-00003	09-00043	09-00043
08-00088	08-00077	08-00078	08-00032	08-00039	08-00042	08-00047
07-00362	07-00036	07-00032	07-00006	07-00060	07-00062	07-00064
06-01020	06-01125	06-01210	06-01210	06-01304	06-01345	06-01345
05-00098	05-00074	05-00049	05-00017	05-00102	05-00108	05-00108
04-00072	04-00040	04-00071	04-00017	04-00043	04-00117	04-00117
03-00320	03-00351	03-00381	03-00381	03-00413	03-00445	03-00445
02-00357	02-00371	02-00376	02-00376	02-00404	02-00445	02-00445
01-00073	01-00080	01-00082	01-00082	01-00099	01-00108	01-00108
00-01121	00-01121	00-01121	00-01121	00-01121	00-01121	00-01121
01359180	01403200	01403200	01403200	01412200	01422200	01432200
07167000	06718700	06718700	06718700	06718700	06718700	06718700

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Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
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DATA No. P15	DATA No. P16	DATA No. P17	DATA No. P18	DATA No. P19	DATA No. P20
16 PSIG	17 PSIG	18 PSIG	19 PSIG	20 PSIG	0 PSIG
01-00139	01-00144	01-00150	01-00156	01-00162	01-00168
02-00063	02-00063	02-00063	02-00067	02-00074	02-00080
03-00080	03-00085	03-00089	03-00093	03-00097	03-00101
04-00053	04-00058	04-00062	04-00066	04-00070	04-00074
05-00000	05-00010	05-00012	05-00013	05-00014	05-00015
06-00161	06-00171	06-00179	06-00186	06-00194	06-00201
07-00006	07-00010	07-00014	07-00018	07-00021	07-00024
08-00044	08-00049	08-00051	08-00053	08-00054	08-00055
09-00178	09-00184	09-00191	09-00198	09-00204	09-00210
10-00015	10-00018	10-00021	10-00024	10-00027	10-00030
11-00130	11-00134	11-00143	11-00146	11-00150	11-00154
12-00168	12-00179	12-00186	12-00194	12-00201	12-00208
13-00123	13-00126	13-00137	13-00141	13-00145	13-00149
14-00002	14-00007	14-00010	14-00016	14-00023	14-00030
15-00172	15-00184	15-00196	15-00204	15-00210	15-00217
16-00046	16-00048	16-00052	16-00053	16-00054	16-00055
17-00007	17-00008	17-00006	17-00008	17-00009	17-00010
18-00153	18-00164	18-00173	18-00181	18-00184	18-00187
19-00011	19-00011	19-00010	19-00015	19-00017	19-00018
20-00048	20-00049	20-00052	20-00052	20-00053	20-00054
21-00039	21-00039	21-00045	21-00044	21-00046	21-00047
22-00067	22-00073	22-00073	22-00077	22-00081	22-00085
23-00116	23-00123	23-00132	23-00137	23-00141	23-00145
24-00001	24-00000	24-00002	24-00002	24-00004	24-00003
25-00010	25-00010	25-00010	25-00010	25-00010	25-00010
26-00001	26-00000	26-00000	26-00000	26-00000	26-00000
27-00045	27-00047	27-00047	27-00047	27-00047	27-00047
28-00124	28-00130	28-00137	28-00141	28-00146	28-00150
29-00021	29-00021	29-00021	29-00021	29-00021	29-00021
30-00063	30-00063	30-00063	30-00063	30-00063	30-00063
31-00130	31-00130	31-00130	31-00130	31-00130	31-00130
32-00177	32-00177	32-00177	32-00177	32-00177	32-00177
33-00146	33-00146	33-00146	33-00146	33-00146	33-00146
34-00059	34-00059	34-00059	34-00059	34-00059	34-00059
35-00028	35-00028	35-00028	35-00028	35-00028	35-00028
36-00026	36-00026	36-00026	36-00026	36-00026	36-00026
37-00026	37-00026	37-00026	37-00026	37-00026	37-00026
38-00026	38-00026	38-00026	38-00026	38-00026	38-00026
39-00026	39-00026	39-00026	39-00026	39-00026	39-00026
40-00026	40-00026	40-00026	40-00026	40-00026	40-00026
41-00026	41-00026	41-00026	41-00026	41-00026	41-00026
42-00026	42-00026	42-00026	42-00026	42-00026	42-00026
43-00026	43-00026	43-00026	43-00026	43-00026	43-00026
44-00026	44-00026	44-00026	44-00026	44-00026	44-00026
45-00026	45-00026	45-00026	45-00026	45-00026	45-00026
46-00026	46-00026	46-00026	46-00026	46-00026	46-00026
47-00026	47-00026	47-00026	47-00026	47-00026	47-00026
48-00026	48-00026	48-00026	48-00026	48-00026	48-00026
49-00026	49-00026	49-00026	49-00026	49-00026	49-00026
50-00026	50-00026	50-00026	50-00026	50-00026	50-00026
51-00026	51-00026	51-00026	51-00026	51-00026	51-00026
52-00026	52-00026	52-00026	52-00026	52-00026	52-00026
53-00026	53-00026	53-00026	53-00026	53-00026	53-00026
54-00026	54-00026	54-00026	54-00026	54-00026	54-00026
55-00026	55-00026	55-00026	55-00026	55-00026	55-00026
56-00026	56-00026	56-00026	56-00026	56-00026	56-00026
57-00026	57-00026	57-00026	57-00026	57-00026	57-00026
58-00026	58-00026	58-00026	58-00026	58-00026	58-00026
59-00026	59-00026	59-00026	59-00026	59-00026	59-00026
60-00026	60-00026	60-00026	60-00026	60-00026	60-00026
61-00026	61-00026	61-00026	61-00026	61-00026	61-00026
62-00026	62-00026	62-00026	62-00026	62-00026	62-00026
63-00026	63-00026	63-00026	63-00026	63-00026	63-00026
64-00026	64-00026	64-00026	64-00026	64-00026	64-00026
65-00026	65-00026	65-00026	65-00026	65-00026	65-00026
66-00026	66-00026	66-00026	66-00026	66-00026	66-00026
67-00026	67-00026	67-00026	67-00026	67-00026	67-00026
68-00026	68-00026	68-00026	68-00026	68-00026	68-00026
69-00026	69-00026	69-00026	69-00026	69-00026	69-00026
70-00026	70-00026	70-00026	70-00026	70-00026	70-00026
71-00026	71-00026	71-00026	71-00026	71-00026	71-00026
72-00026	72-00026	72-00026	72-00026	72-00026	72-00026
73-00026	73-00026	73-00026	73-00026	73-00026	73-00026
74-00026	74-00026	74-00026	74-00026	74-00026	74-00026
75-00026	75-00026	75-00026	75-00026	75-00026	75-00026
76-00026	76-00026	76-00026	76-00026	76-00026	76-00026
77-00026	77-00026	77-00026	77-00026	77-00026	77-00026
78-00026	78-00026	78-00026	78-00026	78-00026	78-00026
79-00026	79-00026	79-00026	79-00026	79-00026	79-00026
80-00026	80-00026	80-00026	80-00026	80-00026	80-00026
81-00026	81-00026	81-00026	81-00026	81-00026	81-00026
82-00026	82-00026	82-00026	82-00026	82-00026	82-00026
83-00026	83-00026	83-00026	83-00026	83-00026	83-00026
84-00026	84-00026	84-00026	84-00026	84-00026	84-00026
85-00026	85-00026	85-00026	85-00026	85-00026	85-00026
86-00026	86-00026	86-00026	86-00026	86-00026	86-00026
87-00026	87-00026	87-00026	87-00026	87-00026	87-00026
88-00026	88-00026	88-00026	88-00026	88-00026	88-00026
89-00026	89-00026	89-00026	89-00026	89-00026	89-00026
90-00026	90-00026	90-00026	90-00026	90-00026	90-00026
91-00026	91-00026	91-00026	91-00026	91-00026	91-00026
92-00026	92-00026	92-00026	92-00026	92-00026	92-00026
93-00026	93-00026	93-00026	93-00026	93-00026	93-00026
94-00026	94-00026	94-00026	94-00026	94-00026	94-00026
95-00026	95-00026	95-00026	95-00026	95-00026	95-00026
96-00026	96-00026	96-00026	96-00026	96-00026	96-00026
97-00026	97-00026	97-00026	97-00026	97-00026	97-00026
98-00026	98-00026	98-00026	98-00026	98-00026	98-00026
99-00026	99-00026	99-00026	99-00026	99-00026	99-00026
100-00026	100-00026	100-00026	100-00026	100-00026	100-00026

TER073

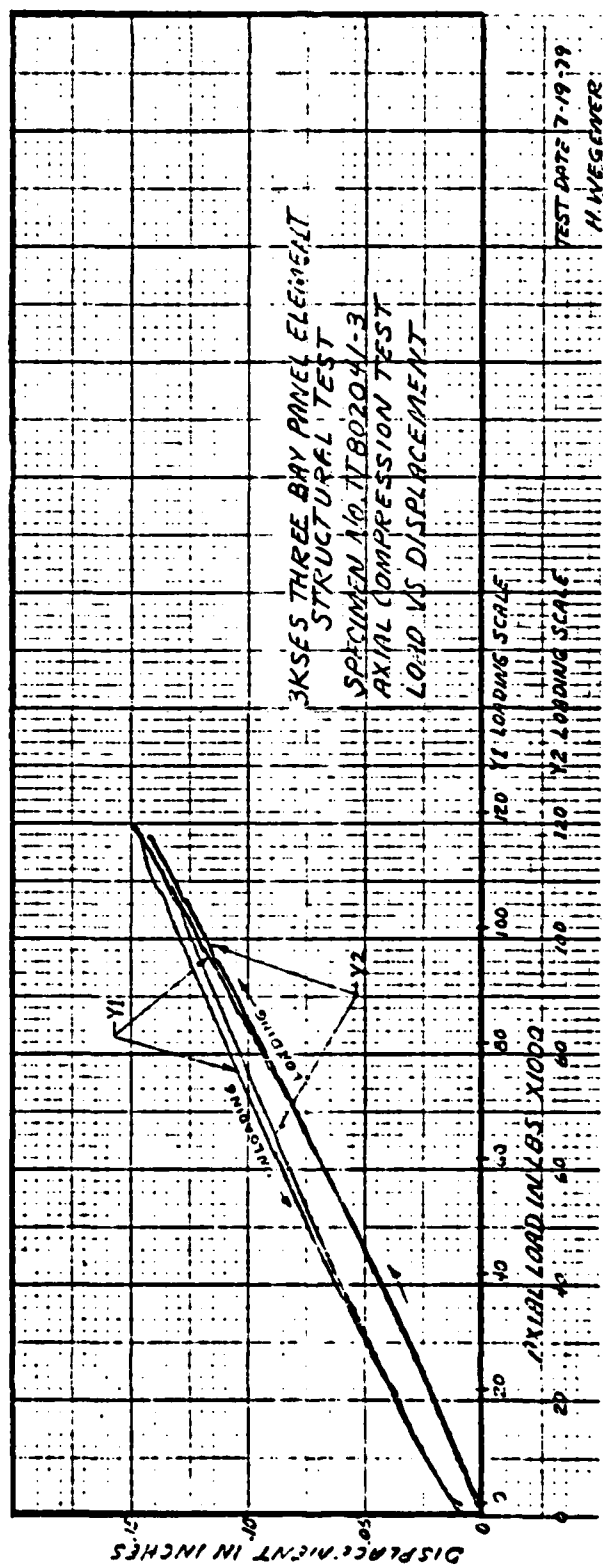
Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Normal Pressure

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PRE TEST R CAL	POST TEST R CAL
03-00013	03-00014
02-00095	02-00095
01-00107	01-00106
00-00065	00-00066
79-00343	79-00344
78-00031	78-00030
77-00030	77-00031
76-00069	76-00068
75-00041	75-00040
74-00564	74-00565
73-00080	73-00079
72-00034	72-00034
71-00017	71-00017
70-00302	70-00303
69-00077	69-00076
68-00427	68-00428
67-00356	67-00358
66-00046	66-00047
65-00017	65-00016
64-00075	64-00077
63-00167	63-00166
62-00050	62-00051
61-00023	61-00023
60-00002	60-00002
59-01083	59-01083
58-01431	58-01428
57-01427	57-01434
56-01444	56-01777
55-01437	55-01237
54-01425	54-01433
53-01442	53-01709
52-01440	52-01352
51-01426	51-01435
50-01431	50-01420
49-01425	49-01433
48-01434	48-01413
47-01439	47-01522
46-01424	46-01434
45-01434	45-01237
44-01441	44-01926
43-01432	43-01422
42-01420	42-01460
41-01422	41-01462
40-01429	40-01432
39-01441	39-01444
38-01434	38-01447
37-01431	37-01426
36-01435	36-01417
35-01420	35-01439
34-01427	34-01427
33-01435	33-01436
32-01437	32-01423
31-01435	31-01474
30-01423	30-01475
29-01425	29-01530
28-01433	28-01367
27-01430	27-01419
26-01427	26-01419
25-01430	25-01416
24-01426	24-01434
23-01420	23-01544
22-01432	22-01361
21-01433	21-01420
20-01417	20-01470
19-01427	19-01401
18-01422	18-01413
17-01430	17-01445
16-01428	16-01413
15-01427	15-01419
14-01429	14-01422
13-01419	13-01431
12-01422	12-01416
11-01426	11-01437
10-01426	10-01411
09-01429	09-01455
08-01422	08-01473
07-01424	07-01435
06-01421	06-01449
05-01423	05-01478
04-01421	04-01422
03-01423	03-01419
02-01427	02-01439
01-01426	01-01417
00-01422	00-01439
013256760	013256760
067107900	067107900

CALCULATED THREE-BAY ELEMENT COMBINED LOADING TEST
PANEL AREA 10.76 IN² AXIAL COMPRESSION TEST ON TT 802041-3 TEST DATE 7-19-79
REF. TP00017P.3.5.2.2 (3/8" STIFFENER OFFSET)

DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	HYD. CYL. PIN IN	HYD. CYL. PIN OUT
AC1	0	0	.100	.100	.100	.100		
AC1a	0	0	.100	.100	.100	.100		
AC2	2,000	21,540	.102	.102	.104	.101		
AC3	4,000	43,070	.107	.107	.110	.099		
~~AC4~~	~~5,000~~	~~53,940~~						
AC5	6,000	64,610	.112	.114	.119	.096		
AC6	7,000	75,380	.115	.119	.124	.094		
AC7	8,000	86,140	.119	.122	.129	.092		
AC8	9,000	96,910	.122	.126	.134	.091		
AC9	10,000	107,680	.125	.130	.142	.091		
AC10	11,000	118,450	.129	.133	.150	.091		
AC11	2,000	21,540	.115	.118	.102	.090		
AC12	0	0	.107	.107	.097	.098	HYD. CYL. PIN IN	
AC13	0	0	.107	.107	.095	.098	HYD. CYL. PIN OUT	



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Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression

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DATA No. AC1 DATA No. AC2

DATA No. AC3 DATA No. AC4

DATA No. AC5 DATA No. AC6

DATA No. AC7

DATA No. AC1	DATA No. AC2	DATA No. AC3	DATA No. AC4	DATA No. AC5	DATA No. AC6	DATA No. AC7
27,000	27,000	21,500	43,000	64,000	75,400	86,100
03-00002	03-00003	03-00002	03-00002	03-00001	03-00000	03-00002
02-00002	02-00002	02-00002	02-00003	02-00003	02-00005	02-00004
01-00002	01-00003	01-00003	01-00002	01-00006	01-00007	01-00004
00-00001	00-00001	00-00001	00-00004	00-00005	00-00005	00-00004
79-00001	79-00002	79-00001	79-00001	79-00002	79-00001	79-00001
78-00001	78-00001	78-00002	78-00002	78-00005	78-00001	78-00001
77-00002	77-00001	77-00001	77-00002	77-00006	77-00010	77-00011
76-00002	76-00001	76-00010	76-00003	76-00002	76-00001	76-00000
75-00004	75-00007	75-00016	75-00031	75-00004	75-00058	75-00017
74-00001	74-00002	74-00008	74-00017	74-00027	74-00032	74-00036
73-00004	73-00004	73-00006	73-00013	73-00022	73-00026	73-00030
72-00000	72-00000	72-00000	72-00006	72-00000	72-00003	72-00001
71-00002	71-00002	71-00005	71-00013	71-00022	71-00027	71-00032
70-00003	70-00003	70-00005	70-00017	70-00026	70-00037	70-00043
69-00007	69-00007	69-00016	69-00033	69-00046	69-00056	69-00060
68-00002	68-00002	68-00000	68-00007	68-00016	68-00021	68-00024
67-00002	67-00002	67-00001	67-00002	67-00001	67-00002	67-00001
66-00005	66-00005	66-00005	66-00005	66-00010	66-00010	66-00009
65-00001	65-00001	65-00001	65-00001	65-00005	65-00007	65-00010
64-00001	64-00001	64-00002	64-00003	64-00005	64-00006	64-00006
63-00003	63-00004	63-00005	63-00006	63-00009	63-00009	63-00009
62-00000	62-00000	62-00002	62-00005	62-00004	62-00009	62-00014
61-00011	61-00010	61-00011	61-00013	61-00011	61-00014	61-00016
60-00001	60-00002	60-00002	60-00025	60-00042	60-00052	60-00056
59-00034	59-00035	59-00046	59-00059	59-00089	59-00091	59-00093
58-00004	58-00002	58-00002	58-00003	58-00003	58-00003	58-00003
57-00003	57-00003	57-00016	57-00032	57-00053	57-00059	57-00062
56-00009	56-00009	56-00047	56-00077	56-00017	56-00042	56-00067
55-00007	55-00007	55-00063	55-00106	55-00154	55-00178	55-00194
54-00004	54-00003	54-00172	54-00305	54-00336	54-00371	54-00377
53-00002	53-00002	53-00132	53-00262	53-00340	53-00353	53-00351
52-00006	52-00005	52-00078	52-00145	52-00214	52-00251	52-00250
51-00003	51-00002	51-00144	51-00188	51-00236	51-00261	51-00297
50-00006	50-00006	50-00242	50-00287	50-00336	50-00370	50-00402
49-00002	49-00005	49-00192	49-00369	49-00394	49-00454	49-00473
48-00002	48-00003	48-00007	48-00200	48-00309	48-00365	48-00422
47-00003	47-00005	47-00110	47-00216	47-00326	47-00355	47-00411
46-00003	46-00006	46-00164	46-00366	46-00553	46-00608	46-00738
45-00001	45-00001	45-00061	45-00124	45-00185	45-00204	45-00227
44-00002	44-00003	44-00115	44-00245	44-00388	44-00464	44-00542
43-00000	43-00002	43-00174	43-00347	43-00517	43-00603	43-00687
42-00003	42-00006	42-00306	42-00618	42-00920	42-01172	42-01219
41-00001	41-00002	41-00247	41-00497	41-00734	41-00950	41-01241
40-00002	40-00004	40-00071	40-00141	40-00216	40-00285	40-00345
39-00003	39-00002	39-00026	39-00051	39-00073	39-00094	39-00112
38-00002	38-00004	38-00165	38-00324	38-00479	38-00558	38-00632
37-00000	37-00003	37-00189	37-00377	37-00561	37-00633	37-00740
36-00003	36-00001	36-00123	36-00263	36-00414	36-00496	36-00574
35-00003	35-00003	35-00017	35-00043	35-00080	35-00104	35-00128
34-00000	34-00000	34-00076	34-00157	34-00238	34-00292	34-00325
33-00003	33-00003	33-00014	33-00035	33-00052	33-00062	33-00071
32-00006	32-00006	32-00176	32-00346	32-00517	32-00604	32-00688
31-00006	31-00009	31-00235	31-00468	31-00645	31-00810	31-00914
30-00000	30-00006	30-00310	30-00653	30-00987	30-01158	30-01325
29-00002	29-00001	29-00002	29-00002	29-00006	29-00010	29-00013
28-00001	28-00001	28-00129	28-00269	28-00416	28-00494	28-00572
27-00000	27-00003	27-00180	27-00360	27-00576	27-00677	27-00775
26-00000	26-00003	26-00183	26-00364	26-00546	26-00637	26-00724
25-00001	25-00006	25-00018	25-00033	25-00044	25-00047	25-00051
24-00001	24-00003	24-00071	24-00221	24-00345	24-00416	24-00491
23-00002	23-00002	23-00007	23-00019	23-00035	23-00046	23-00056
22-00002	22-00002	22-00137	22-00288	22-00456	22-00530	22-00636
21-00002	21-00005	21-00179	21-00357	21-00538	21-00630	21-00716
20-00002	20-00009	20-00314	20-00637	20-00972	20-01147	20-01317
19-00005	19-00008	19-00253	19-00506	19-00781	19-00942	19-01014
18-00003	18-00002	18-00062	18-00126	18-00196	18-00223	18-00255
17-00002	17-00001	17-00047	17-00099	17-00162	17-00196	17-00231
16-00001	16-00003	16-00155	16-00307	16-00459	16-00533	16-00603
15-00002	15-00005	15-00197	15-00394	15-00601	15-00704	15-00802
14-00001	14-00002	14-00144	14-00308	14-00493	14-00595	14-00696
13-00003	13-00003	13-00031	13-00072	13-00127	13-00166	13-00195
12-00001	12-00002	12-00105	12-00217	12-00345	12-00415	12-00495
11-00003	11-00003	11-00010	11-00025	11-00047	11-00061	11-00081
10-00004	10-00007	10-00086	10-00177	10-00275	10-00378	10-00476
09-00002	09-00006	09-00228	09-00451	09-00671	09-00776	09-00875
08-00004	08-00009	08-00317	08-00639	08-00977	08-01151	08-01311
07-00000	07-00003	07-00170	07-00334	07-00514	07-00604	07-00692
06-00000	06-00000	06-00132	06-00264	06-00438	06-00535	06-00637
05-00000	05-00001	05-00122	05-00235	05-00378	05-00437	05-00546
04-00000	04-00002	04-00145	04-00273	04-00452	04-00542	04-00631
03-00001	03-00003	03-00222	03-00447	03-00673	03-00790	03-00902
02-00000	02-00002	02-00169	02-00344	02-00525	02-00619	02-00715
01-00000	01-00001	01-00107	01-00216	01-00320	01-00431	01-00523
00-00002	00-00002	00-00029	00-00098	00-00168	00-00245	00-00335
01415160	01415160	01415160	01423160	01431320	01431320	01431320
07197900	07197900	07197900	07197900	07197900	07197900	07197900

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression

DATA No. AC8	DATA No. AC9	DATA No. AC10	DATA No. AC11	DATA No. AC12	DATA No. AC13
96,900*	107,700*	118,500*	21,500*	200,000*	200,000*
					HYD PIN OUT

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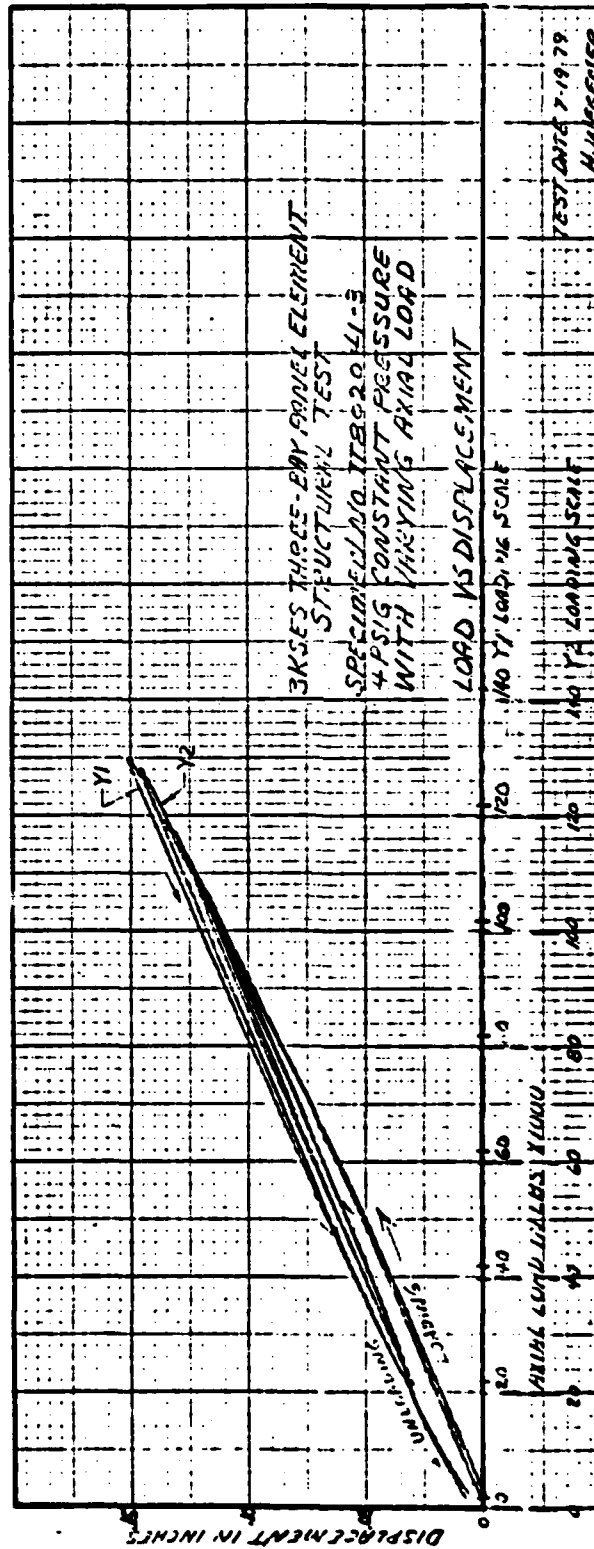
Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression

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PRE TEST R CAL	POST TEST R CAL
03-00020	03-00020
02-00067	02-00067
01-00097	01-00097
00-00074	00-00074
79-00046	79-00046
78-00017	78-00017
77-00036	77-00036
76-00094	76-00094
75-00020	75-00014
74-00067	74-00063
73-00060	73-00065
72-00046	72-00046
71-00027	71-00027
70-00022	70-00030
69-00068	69-00063
68-00028	68-00020
67-00037	67-00036
66-00000	66-00000
65-00012	65-00012
64-00084	64-00065
63-00172	63-00173
62-00056	62-00067
61-00012	61-00012
60-00002	60-00008
59-00079	59-00015
58-01425	58-01425
57-01428	57-01421
56-01421	56-01405
55-01423	55-01412
54-01435	54-01434
53-01429	53-01440
52-01424	52-01432
51-01434	51-01430
50-01424	50-01442
49-01430	49-01431
48-01423	48-01421
47-01422	47-01426
46-01423	46-01410
45-01424	45-01414
44-01423	44-01410
43-01426	43-01426
42-01424	42-01400
41-01429	41-01417
40-01429	40-01427
39-01424	39-01424
38-01423	38-01431
37-01420	37-01430
36-01425	36-01423
35-01422	35-01416
34-01426	34-01427
33-01426	33-01415
32-01420	32-01435
31-01421	31-01436
30-01425	30-01438
29-01429	29-01424
28-01426	28-01420
27-01425	27-01431
26-01424	26-01432
25-01422	25-01413
24-01446	24-01421
23-01424	23-01414
22-01426	22-01420
21-01424	21-01433
20-01423	20-01379
19-01425	19-01394
18-01424	18-01420
17-01423	17-01417
16-01425	16-01430
15-01423	15-01423
14-01424	14-01428
13-01421	13-01415
12-01427	12-01424
11-01422	11-01416
10-01421	10-01417
09-01423	09-01417
08-01421	08-01417
07-01424	07-01416
06-01422	06-01444
05-01424	05-01431
04-01422	04-01431
03-01424	03-01436
02-01425	02-01416
01-01426	01-01414
00-01427	00-01406
01-01429	01-01406
00-01429	00-01406

TT 802041-3 CIRCULATED		THREE-DAY ELEMENT COMBINED LOADING TEST										TEST DATE 7-19-79			
PISTON AREA = 10.768 IN ²		AXIAL COMPRESSION & PRESSURE TEST ON TT 802041-3										(3/8" STIFFENER OFFSET)			
REF. TT 800017 12 3 5 3															
DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESSURE PSIG	IN. HG	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	HYD. CYL. P _{IN}	HYD. CYL. P _{OUT}					
ACP 0	0	0	0	0	.100	.100	.100	.100	HYD. CYL. P _{IN}	OUT					
ACP 1	0	0	0	0	.100	.100	.100	.100	"	"					
ACP 12	0	0	4	8.14	.111	.101	.139	.130							
ACP 2	2,000	21,540	4		.103	.102	.144	.131							
ACP 3	4,000	43,070	4		.105	.105	.150	.130							
ACP 4	5,000	53,540													
ACP 5	6,000	64,610	4		.109	.110	.158	.129							
ACP 6	7,000	75,530													
ACP 7	8,000	86,140	4		.114	.116	.171	.127							
ACP 8	9,000	96,910	4		.117	.120	.176	.126							
ACP 9	10,000	107,680	4		.119	.123	.184	.127							
ACP 10	2,000	21,540	4		.111	.123	.146	.129							
ACP 11	11,000	118,450	4		.123	.126	.193	.128							
ACP 12	12,000	129,220	4		.126	.130	.202	.129							
ACP 13	3,000	21,540	4		.113	.115	—	.129							
ACP 14	0	0	4	8.14	.107	.106	.140	.133							
ACP 15	0	0	0	0	.005	.004	.003	.002	HYD. CYL. P _{IN}	IN					
ACP 16	0	0	0	0	.004	.004	.003	.002	HYD. CYL. P _{IN}	OUT					

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TERO73

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 4 psig Normal Pressure Page 1 of 3

DATA No. ACP0	DATA No. ACP1	DATA No. ACP1a	DATA No. ACP2	DATA No. ACP3	DATA No. ACP5	DATA No. ACP7
HYD. P. IN	HYD. P. IN	2500 PSI	2150 PSI	43,100 PSI	64,500 PSI	86,100 PSI
2500 PSI	2500 PSI	2500 PSI	2150 PSI	43,100 PSI	64,500 PSI	86,100 PSI
03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000
02-00001	02-00001	02-00001	02-00001	02-00001	02-00001	02-00001
01-00000	01-00000	01-00000	01-00001	01-00002	01-00003	01-00004
00-00001	00-00001	00-00001	00-00002	00-00003	00-00004	00-00005
19-00000	19-00000	19-00000	19-00003	19-00005	19-00007	19-00009
18-00000	18-00000	18-00000	18-00004	18-00006	18-00008	18-00010
17-00001	17-00001	17-00001	17-00005	17-00007	17-00009	17-00011
16-00000	16-00000	16-00000	16-00006	16-00008	16-00010	16-00012
15-00000	15-00000	15-00000	15-00007	15-00009	15-00011	15-00013
14-00001	14-00001	14-00001	14-00008	14-00010	14-00012	14-00014
13-00000	13-00000	13-00000	13-00009	13-00011	13-00013	13-00015
12-00000	12-00000	12-00000	12-00010	12-00012	12-00014	12-00016
11-00001	11-00001	11-00001	11-00011	11-00013	11-00015	11-00017
10-00002	10-00002	10-00002	10-00012	10-00014	10-00016	10-00018
09-00000	09-00000	09-00000	09-00013	09-00015	09-00017	09-00019
08-00000	08-00000	08-00000	08-00014	08-00016	08-00018	08-00020
07-00001	07-00001	07-00001	07-00015	07-00017	07-00019	07-00021
06-00000	06-00000	06-00000	06-00016	06-00018	06-00020	06-00022
05-00000	05-00000	05-00000	05-00017	05-00019	05-00021	05-00023
04-00000	04-00000	04-00000	04-00018	04-00020	04-00022	04-00024
03-00001	03-00001	03-00001	03-00019	03-00021	03-00023	03-00025
02-00000	02-00000	02-00000	02-00020	02-00022	02-00024	02-00026
01-00000	01-00000	01-00000	01-00021	01-00023	01-00025	01-00027
00-00005	00-00005	00-00005	00-00022	00-00024	00-00026	00-00028
99-00003	99-00003	99-00003	99-00023	99-00025	99-00027	99-00029
98-00002	98-00002	98-00002	98-00024	98-00026	98-00028	98-00030
97-00001	97-00001	97-00001	97-00025	97-00027	97-00029	97-00031
96-00000	96-00000	96-00000	96-00026	96-00028	96-00030	96-00032
95-00001	95-00001	95-00001	95-00027	95-00029	95-00031	95-00033
94-00000	94-00000	94-00000	94-00028	94-00030	94-00032	94-00034
93-00001	93-00001	93-00001	93-00029	93-00031	93-00033	93-00035
92-00000	92-00000	92-00000	92-00030	92-00032	92-00034	92-00036
91-00001	91-00001	91-00001	91-00031	91-00033	91-00035	91-00037
90-00002	90-00002	90-00002	90-00032	90-00034	90-00036	90-00038
89-00000	89-00000	89-00000	89-00033	89-00035	89-00037	89-00039
88-00000	88-00000	88-00000	88-00034	88-00036	88-00038	88-00040
87-00001	87-00001	87-00001	87-00035	87-00037	87-00039	87-00041
86-00000	86-00000	86-00000	86-00036	86-00038	86-00040	86-00042
85-00000	85-00000	85-00000	85-00037	85-00039	85-00041	85-00043
84-00001	84-00001	84-00001	84-00038	84-00040	84-00042	84-00044
83-00000	83-00000	83-00000	83-00039	83-00041	83-00043	83-00045
82-00001	82-00001	82-00001	82-00040	82-00042	82-00044	82-00046
81-00000	81-00000	81-00000	81-00041	81-00043	81-00045	81-00047
80-00000	80-00000	80-00000	80-00042	80-00044	80-00046	80-00048
79-00000	79-00000	79-00000	79-00043	79-00045	79-00047	79-00049
78-00000	78-00000	78-00000	78-00044	78-00046	78-00048	78-00050
77-00001	77-00001	77-00001	77-00045	77-00047	77-00049	77-00051
76-00000	76-00000	76-00000	76-00046	76-00048	76-00050	76-00052
75-00000	75-00000	75-00000	75-00047	75-00049	75-00051	75-00053
74-00001	74-00001	74-00001	74-00048	74-00050	74-00052	74-00054
73-00000	73-00000	73-00000	73-00049	73-00051	73-00053	73-00055
72-00000	72-00000	72-00000	72-00050	72-00052	72-00054	72-00056
71-00001	71-00001	71-00001	71-00051	71-00053	71-00055	71-00057
70-00002	70-00002	70-00002	70-00052	70-00054	70-00056	70-00058
69-00000	69-00000	69-00000	69-00053	69-00055	69-00057	69-00059
68-00000	68-00000	68-00000	68-00054	68-00056	68-00058	68-00060
67-00001	67-00001	67-00001	67-00055	67-00057	67-00059	67-00061
66-00000	66-00000	66-00000	66-00056	66-00058	66-00060	66-00062
65-00000	65-00000	65-00000	65-00057	65-00059	65-00061	65-00063
64-00000	64-00000	64-00000	64-00058	64-00060	64-00062	64-00064
63-00001	63-00001	63-00001	63-00059	63-00061	63-00063	63-00065
62-00000	62-00000	62-00000	62-00060	62-00062	62-00064	62-00066
61-00000	61-00000	61-00000	61-00061	61-00063	61-00065	61-00067
60-00005	60-00005	60-00005	60-00062	60-00064	60-00066	60-00068
59-00003	59-00003	59-00003	59-00063	59-00065	59-00067	59-00069
58-00002	58-00002	58-00002	58-00064	58-00066	58-00068	58-00070
57-00001	57-00001	57-00001	57-00065	57-00067	57-00069	57-00071
56-00000	56-00000	56-00000	56-00066	56-00068	56-00070	56-00072
55-00001	55-00001	55-00001	55-00067	55-00069	55-00071	55-00073
54-00000	54-00000	54-00000	54-00068	54-00070	54-00072	54-00074
53-00001	53-00001	53-00001	53-00069	53-00071	53-00073	53-00075
52-00000	52-00000	52-00000	52-00070	52-00072	52-00074	52-00076
51-00001	51-00001	51-00001	51-00071	51-00073	51-00075	51-00077
50-00002	50-00002	50-00002	50-00072	50-00074	50-00076	50-00078
49-00000	49-00000	49-00000	49-00073	49-00075	49-00077	49-00079
48-00000	48-00000	48-00000	48-00074	48-00076	48-00078	48-00080
47-00001	47-00001	47-00001	47-00075	47-00077	47-00079	47-00081
46-00000	46-00000	46-00000	46-00076	46-00078	46-00080	46-00082
45-00001	45-00001	45-00001	45-00077	45-00079	45-00081	45-00083
44-00000	44-00000	44-00000	44-00078	44-00080	44-00082	44-00084
43-00001	43-00001	43-00001	43-00079	43-00081	43-00083	43-00085
42-00000	42-00000	42-00000	42-00080	42-00082	42-00084	42-00086
41-00001	41-00001	41-00001	41-00081	41-00083	41-00085	41-00087
40-00000	40-00000	40-00000	40-00082	40-00084	40-00086	40-00088
39-00002	39-00002	39-00002	39-00083	39-00085	39-00087	39-00089
38-00000	38-00000	38-00000	38-00084	38-00086	38-00088	38-00090
37-00000	37-00000	37-00000	37-00085	37-00087	37-00089	37-00091
36-00006	36-00006	36-00006	36-00086	36-00088	36-00090	36-00092
35-00001	35-00001	35-00001	35-00087	35-00089	35-00091	35-00093
34-00000	34-00000	34-00000	34-00088	34-00090	34-00092	34-00094
33-00001	33-00001	33-00001	33-00089	33-00091	33-00093	33-00095
32-00003	32-00003	32-00003	32-00090	32-00092	32-00094	32-00096
31-00002	31-00002	31-00002	31-00091	31-00093	31-00095	31-00097
30-00000	30-00000	30-00000	30-00092	30-00094	30-00096	30-00098
29-00000	29-00000	29-00000	29-00093	29-00095	29-00097	29-00099
28-00001	28-00001	28-00001	28-00094	28-00096	28-00098	28-00100
27-00001	27-00001	27-00001	27-00095	27-00097	27-00099	27-00101
26-00001	26-00001	26-00001	26-00096	26-00098	26-00100	26-00102
25-00001	25-00001	25-00001	25-00097	25-00099	25-00101	25-00103
24-00002	24-00002	24-00002	24-00098	24-00100	24-00102	24-00104
23-00001	23-00001	23-00001	23-00099	23-00101	23-00103	23-00105
22-00003	22-00003	22-00003	22-00100	22-00102	22-00104	22-00106
21-00000	21-00000	21-00000	21-00101	21-00103	21-00105	21-00107
20-00000	20-00000	20-00000	20-00102	20-00104	20-00106	20-00108
19-00001	19-00001	19-00001	19-00103	19-00105	19-00107	19-00109
18-00001	18-00001	18-00001	18-00104	18-00106	18-00108	18-00110
17-00001	17-00001	17-00001	17-00105	17-00107	17-00109	17-00111
16-00001	16-00001	16-00001	16-00106	16-00108	16-00110	16-00112
15-00001	15-00001	15-00001	15-00107	15-00109	15-00111	15-00113
14-00001	14-00001	14-00001	14-00108	14-00110	14-00112	14-00114
13-00002	13-00002	13-00002	13-00109	13-00111	13-00113	13-00115
12-00001	12-00001	12-00001	12-00110	12-00112	12-00114	12-00116
11-00001	11-00001	11-00001	11-00111	11-00113	11-00115	11-00117
10-00002	10-00002	10-00002	10-00112	10-00114	10-00116	10-00118
09-00001	09-00001	09-00001	09-00113	09-00115	09-00117	09-00119
08-00001	08-00001	08-00001	08-00114	08-00116	08-00118	08-00120
07-00000	07-00000	07-00000	07-00115	07-00117	07-00119	07-00121
06-00001	06-00001	06-00001	06-00116	06-00118	06-00120	06-00122
05-00000	05-00000	05-00000	05-00117	05-00119	05-00121	05-00123
04-00001	04-00001	04-00001	04-00118	04-00120	04-00122	04-00124
03-00000	03-00000	03-00000	03-00119	03-00121	03-00123	03-00125
02-00001	02-00001	02-00001	02-00120	02-00122	02-00124	02-00126
01-00000	01-00000	01-00000	01-00121	01-00123	01-00125	01-00127
00-00000	00-00000	00-00000	00-00122	00-00124	00-00126	00-00128
99-00000	99-00000	99-00000	99-00123	99-00125	99-00127	

TER073

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 4 psig Normal Pressure Page 2 of 3

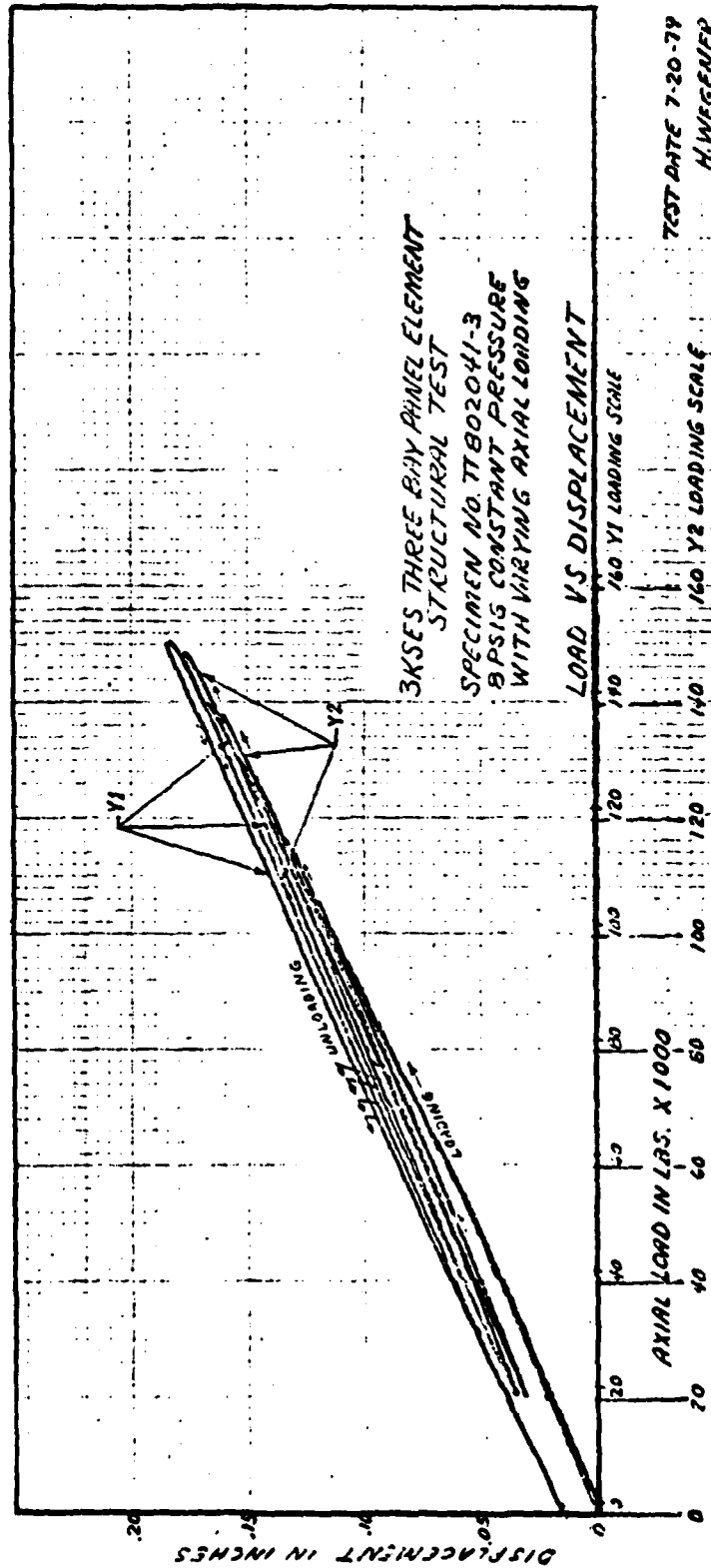
[illegible]

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 4 psig Normal Pressure Page 3 of 3

B-758

TT63041-3 CALCULATED		THREE-BAY ELEMENT COMBINED LOADING TEST										TEST DATE 7-20-79			
PANEL AREA=10.760 m ²		ANALOG DEPRESSION & PRESSURE TEST ON TT602041-3										(30 SECT OFFSET)			
REF ID: 00017 223 5.2.3															
DATA	NOMINAL	AXIAL	PRESS-	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	
No.	STRESS	LOAD	URE	IND.	IND.	IND.	IND.	IND.	IND.	IND.	IND.	IND.	IND.	IND.	
	PSI	LBS.	PSIG	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	
ACP0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	HYD CYL. IN/OUT
ACP1	—	0	0	0	0	0	0	0	0	0	0	0	0	0	HYD CYL. IN/OUT
ACP1a	—	0	2	4.07	.101	.130	.130	.122	.503						
ACP2	—	0	6	12.22	.102	.102	.138	.130	.500						
ACP3	—	0	2	4.07	.102	.101	.133	.127	.504						
ACP4	—	0	7	14.25	.103	.103	.139	.129	.499						
ACP5	—	0	2	4.07	.102	.102	.133	.127	.504						
ACP6	—	0	8	16.29	.103	.103	.140	.128	.497						
ACP7	—	0	2	4.07	.102	.102	.133	.127	.506						
ACP8	—	0	8	16.29	.104	.103	.140	.128	.477						
ACP9	2,000	21,540	8	1.05	.105	.144	.127	.482							
ACP10	4,000	43,070	8	1.08	.108	.150	.125	.462							
ACP11	6,000	64,610	8	1.12	.113	.153	.123	.440							
ACP12	7,000	75,380	8	1.14	.117	.164	.123	.429							
ACP13	8,000	86,140	8	1.17	.120	.170	.123	.418							
ACP14	9,000	96,910	8	1.20	.123	.177	.122	.406							
ACP15	2,000	21,500	8	1.13	.115	.149	.129	.472							
ACP16	10,000	107,620	8	1.23	.125	.184	.123	.396							
ACP17	11,000	118,450	8	1.25	.129	.193	.123	.383							
ACP18	12,000	129,220	8	1.28	.132	.202	.124	.372							
ACP19	2,000	21,500	8	1.16	.118	.150	.129	.468							
ACP20	13,000	140,000	8	16.29	.130	.135	.214	.363							
ACP21	14,000	150,750	8	16.29	.132	.137	.226	.349							
ACP22	2,000	21,540	8	16.29	.119	.121	.152	.465							
ACP23	—	0	8	16.29	.116	.116	.144	.455							
ACP24	—	0	0	0	.112	.112	.100	.485	HYD CYL. IN/OUT						
ACP25	—	0	0	0	.112	.112	.101	.485	HYD CYL. IN/OUT						

TER073



B-760

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 8 psig Normal Pressure Page 1 of 5

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TERO73

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 8 psig Normal Pressure Page 2 of 5

DATA No. ACP 6	DATA No. ACP 7	DATA No. ACP 8	DATA No. ACP 9	DATA No. ACP 10	DATA No. ACP 11	DATA No. ACP 12
2-PSIG	2-PSIG	2-PSIG	2-PSIG	2-PSIG	2-PSIG	2-PSIG
03-000078	03-000044	03-000078	03-000044	03-000078	03-000044	03-000078
02-000045	02-000036	02-000045	02-000036	02-000045	02-000036	02-000045
01-000050	01-000035	01-000050	01-000035	01-000050	01-000035	01-000050
00-000040	00-000031	00-000040	00-000031	00-000040	00-000031	00-000040
79-000006	79-000001	79-000006	79-000001	79-000006	79-000001	79-000006
76-000093	76-000044	76-000093	76-000044	76-000093	76-000044	76-000093
77-000001	77-000001	77-000001	77-000001	77-000001	77-000001	77-000001
76-000026	76-000006	76-000026	76-000006	76-000026	76-000006	76-000026
75-000103	75-000052	75-000103	75-000052	75-000103	75-000052	75-000103
74-000007	74-000006	74-000007	74-000006	74-000007	74-000006	74-000007
73-000074	73-000047	73-000074	73-000047	73-000074	73-000047	73-000074
72-000097	72-000051	72-000097	72-000051	72-000097	72-000051	72-000097
71-000078	71-000046	71-000078	71-000046	71-000078	71-000046	71-000078
70-000005	70-000003	70-000005	70-000003	70-000005	70-000003	70-000005
69-000100	69-000048	69-000100	69-000048	69-000100	69-000048	69-000100
68-000025	68-000012	68-000025	68-000012	68-000025	68-000012	68-000025
67-000004	67-000004	67-000004	67-000004	67-000004	67-000004	67-000004
66-000067	66-000046	66-000067	66-000046	66-000067	66-000046	66-000067
65-000005	65-000006	65-000005	65-000006	65-000005	65-000006	65-000005
64-000033	64-000024	64-000033	64-000024	64-000033	64-000024	64-000033
63-000020	63-000021	63-000020	63-000021	63-000020	63-000021	63-000020
62-000042	62-000028	62-000042	62-000028	62-000042	62-000028	62-000042
61-000002	61-000026	61-000002	61-000026	61-000002	61-000026	61-000002
60-000007	60-000006	60-000007	60-000006	60-000007	60-000006	60-000007
59-000032	59-000074	59-000032	59-000074	59-000032	59-000074	59-000032
58-000001	58-000004	58-000001	58-000004	58-000001	58-000004	58-000001
57-000187	57-000020	57-000187	57-000020	57-000187	57-000020	57-000187
56-000115	56-000055	56-000115	56-000055	56-000115	56-000055	56-000115
55-000271	55-000016	55-000271	55-000016	55-000271	55-000016	55-000271
54-000256	54-000041	54-000256	54-000041	54-000256	54-000041	54-000256
53-000769	53-000078	53-000769	53-000078	53-000769	53-000078	53-000769
52-000514	52-000025	52-000514	52-000025	52-000514	52-000025	52-000514
51-000556	51-000123	51-000556	51-000123	51-000556	51-000123	51-000556
50-000324	50-000105	50-000324	50-000105	50-000324	50-000105	50-000324
49-000234	49-000023	49-000234	49-000023	49-000234	49-000023	49-000234
48-000458	48-000002	48-000458	48-000002	48-000458	48-000002	48-000458
47-000497	47-000057	47-000497	47-000057	47-000497	47-000057	47-000497
46-000160	46-000005	46-000160	46-000005	46-000160	46-000005	46-

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 8 psig Normal Pressure Page 3 of 5

B-763

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
Elastic Axial Compression with 8 psig Normal Pressure Page 4 of 5

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TERO73

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")
 Elastic Axial Compression with 8 psig Normal Pressure Page 5 of 5

PRETEST RCAL	POST TEST RCAL
43*00020	43*00020
42*00007	42*00006
41*00007	41*00009
40*00074	40*00075
39*00034	39*00032
38*00018	38*00017
37*00030	37*00039
36*00066	36*00064
35*00023	35*00022
34*00057	34*00055
33*00069	33*00068
32*00040	32*00042
31*00026	31*00025
30*00005	30*00003
29*00009	29*00007
28*00022	28*00024
27*00018	27*00020
26*00053	26*00054
25*00010	25*00008
24*00082	24*00083
23*00017	23*00017
22*00054	22*00055
21*00018	21*00018
20*00001	20*00001
19*00011	19*00017
18*00028	18*00026
17*00029	17*00011
16*00026	16*00038
15*00027	15*00010
14*00033	14*00034
13*00024	13*00037
12*00029	12*00037
11*00036	11*00063
10*00026	10*00027
09*00031	09*00027
08*00022	08*00016
07*00025	07*00033
06*00023	06*00036
05*00026	05*00034
04*00023	04*00036
03*00026	03*00016
02*00023	02*00036
01*00029	01*00049
00*00027	00*00030
39*00027	39*00025
38*00024	38*00071
37*00029	37*00031
36*00027	36*00030
35*00024	35*00014
34*00027	34*00040
33*00024	33*00015
32*00030	32*00019
31*00030	31*00014
30*00027	30*00009
29*00028	29*00044
28*00023	28*00049
27*00023	27*00031
26*00023	26*00015
25*00021	25*00032
24*00026	24*00046
23*00022	23*00033
22*00022	22*00013
21*00024	21*00010
20*00022	20*00035
19*00028	19*00013
18*00023	18*00034
17*00023	17*00014
16*00026	16*00015
15*00024	15*00024
14*00022	14*00028
13*00022	13*00003
12*00027	12*00036
11*00022	11*00017
10*00023	10*00046
09*00023	09*00039
08*00021	08*00046
07*00021	07*00028
06*00021	06*00032
05*00022	05*00039
04*00023	04*00014
03*00022	03*00036
02*00027	02*00024
01*00026	01*00033
00*00023	00*00036
01358480	01358420
00730790	00730790

NORMAL PRESSURE TEST ON TT 802041-3 MOD. TEST DATE 7-26-79
(3/16" STIFFENER OFFSET)
REF: TP000017 P. 3.5.2.1

DATA NO.	PRESSURE		DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5
	PSIG	IN. Hg					
P1	0	0	—	—	.100	.100	.500
P2	2	4.07	—	—	.130	.124	.503
P3	4	8.14	—	—	.134	.129	.502
P4	6	12.22	—	—	.137	.131	.501
P5	8	16.29	—	—	.138	.128	.498
P6	2	4.07	—	—	.132	.129	.504
P7	9	18.32	—	—	.139	.127	.497
P8	2	4.07	—	—	.132	.128	.504
P9	10	20.36	—	—	.141	.125	.496
P10	11	22.40	—	—	.142	.124	.494
P11	12	24.45	—	—	.143	.124	.493
P12	2	4.07	—	—	.132	.129	.504
P13	2	4.07	—	—	.131	.127	.503
P14	14	28.50	—	—	.145	.124	.490
P15	16	32.58	—	—	.148	.124	.488
P16	18	36.65	—	—	.150	.124	.486
P17	2	4.07	—	—	.133	.129	.504
P18	19	38.68	—	—	.151	.123	.487
P19	20	40.72	—	—	.154	.125	.486
P20	2	4.07	—	—	.133	.130	.505
P21	0	0	—	—	.101	.103	.501

* REDUCED PRESSURE TO 1 PSIG THEN EACH TO 2 PSIG

TERO73

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Normal Pressure Page 1 of 4

[illegible]

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Normal Pressure Page 2 of 4

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[illegible]

TER073

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Normal Pressure

Page 3 of 4

DATA NO. P15	DATA NO. P16	DATA NO. P17	DATA NO. P18	DATA NO. P19	DATA NO. P20	DATA NO. P21
16 PSIG	18 PSIG	2 PSIG	19 PSIG	20 PSIG	21 PSIG	22 PSIG
03-00128	03-00140	03-00139	03-00149	03-00154	03-00160	03-00166
02-00056	02-00058	02-00055	02-00061	02-00063	02-00066	02-00068
01-00072	01-00079	01-00072	01-00082	01-00086	01-00088	01-00090
00-00048	00-00044	00-00027	00-00054	00-00055	00-00026	00-00002
79-00005	79-00010	79-00002	79-00010	79-00012	79-00003	79-00001
78-00121	78-0105	78-00000	78-01174	78-01183	78-00008	78-00003
77-00002	77-00002	77-00001	77-00006	77-00006	77-00003	77-00004
76-00044	76-00053	76-00008	76-00057	76-00058	76-00007	76-00002
75-00167	75-01184	75-00059	75-01193	75-01205	75-00054	75-00005
74-00006	74-00006	74-00005	74-00005	74-00006	74-00005	74-00002
73-00119	73-01132	73-00008	73-01137	73-01144	73-00002	73-00006
72-00169	72-01185	72-00055	72-01196	72-01206	72-00055	72-00001
71-00120	71-01129	71-00004	71-01139	71-01143	71-00007	71-00007
70-00003	70-00004	70-00001	70-00003	70-00004	70-00000	70-00000
69-00167	69-01185	69-00050	69-01194	69-01203	69-00050	69-00006
68-00039	68-00043	68-00006	68-00047	68-00047	68-00007	68-00001
67-00007	67-00010	67-00007	67-00017	67-00017	67-00007	67-00007
66-00144	66-01191	66-00043	66-01171	66-01174	66-00044	66-00007
65-00010	65-00010	65-00004	65-00008	65-00008	65-00004	65-00004
64-00042	64-00044	64-00025	64-00048	64-00048	64-00027	64-00000
63-00043	63-00042	63-00025	63-00046	63-00046	63-00026	63-00007
62-00062	62-00069	62-00024	62-00072	62-00073	62-00023	62-00001
61-00115	61-01125	61-00034	61-01137	61-01143	61-00034	61-00004
60-00003	60-00013	60-00010	60-00005	60-00005	60-00007	60-00000
59-00078	59-00079	59-00093	59-00077	59-00082	59-00076	59-00070
58-00000	58-00001	58-00001	58-00001	58-00001	58-00002	58-00002
57-00039	57-00045	57-00015	57-00050	57-00057	57-00015	57-00004
56-01661	56-01662	56-00037	56-01664	56-01667	56-00023	56-00074
55-00045	55-00082	55-00034	55-00079	55-00085	55-00013	55-00019
54-00066	54-00069	54-00036	54-00072	54-00074	54-00036	54-00004
53-01665	53-01664	53-00009	53-01664	53-01662	53-00059	53-00011
52-01224	52-01287	52-00056	52-01263	52-01268	52-00050	52-00016
51-01138	51-01284	51-00014	51-01284	51-01281	51-00015	51-00004
50-00057	50-00044	50-00015	50-00048	50-00072	50-00016	50-00005
49-00027	49-00056	49-00025	49-00056	49-00067	49-00055	49-00001
48-01113	48-01282	48-00013	48-01327	48-01394	48-00013	48-00024
47-01512	47-01713	47-00004	47-01606	47-01693	47-00021	47-00052
46-00083	46-00044	46-00002	46-00047	46-00046	46-00005	46-00000
45-00025	45-00051	45-00040	45-00021	45-00044	45-00046	45-00053
44-01172	44-01648	44-00002	44-01704	44-01760	44-00015	44-00016
43-00077	43-00099	43-00052	43-00212	43-00226	43-00054	43-00004
42-00084	42-00091	42-00037	42-00094	42-01008	42-00040	42-00004
41-00029	41-00099	41-00076	41-00035	41-00070	41-00084	41-00010
40-00003	40-00024	40-00016	40-00016	40-01155	40-00055	40-00045
39-00076	39-00080	39-00076	39-00031	39-00085	39-00076	39-00006
38-00000	38-00000	38-00000	38-00000	38-00000	38-00000	38-00000
37-00116	37-00125	37-00033	37-00130	37-00134	37-00034	37-00002
36-01045	36-01207	36-00036	36-01274	36-01346	36-00036	36-00005
35-00091	35-01122	35-00036	35-01184	35-01251	35-00036	35-00000
34-01317	34-01498	34-00080	34-01584	34-01675	34-00095	34-00032
33-01324	33-01496	33-00086	33-01583	33-01649	33-00095	33-00007
32-00315	32-00352	32-00066	32-00373	32-00393	32-00071	32-00000
31-00020	31-01026	31-00021	31-01078	31-01137	31-00222	31-00002
30-01236	30-01402	30-00036	30-01468	30-01554	30-00306	30-00011
29-00130	29-01478	29-00078	29-01658	29-01645	29-00078	29-00007
28-01462	28-01651	28-00094	28-01741	28-01838	28-00201	28-00007
27-00115	27-00126	27-00045	27-00131	27-00137	27-00046	27-00007
26-00111	26-00121	26-00032	26-00128	26-00132	26-00033	26-00005
25-00070	25-01096	25-00020	25-01160	25-01226	25-00122	25-00007
24-00032	24-00094	24-00015	24-00096	24-01094	24-00018	24-00002
23-01320	23-01495	23-00080	23-01577	23-01666	23-00142	23-00006
22-01509	22-01708	22-00042	22-01799	22-01897	22-00203	22-00006
21-00333	21-00371	21-00078	21-00391	21-00411	21-00019	21-00004
20-01193	20-01331	20-00082	20-01375	20-01468	20-00286	20-00005
19-01107	19-01235	19-00066	19-01293	19-01361	19-00271	19-00008
18-01297	18-01475	18-00067	18-01560	18-01651	18-00172	18-00011
17-01403	17-01609	17-00064	17-01681	17-01774	17-00164	17-00003
16-00226	16-00292	16-00061	16-00264	16-00278	16-00062	16-00003
15-00136	15-00146	15-00042	15-00149	15-00152	15-00052	15-00002
14-01067	14-01211	14-00030	14-01282	14-01384	14-00030	14-00003
13-00098	13-01132	13-00033	13-01195	13-01283	13-00134	13-00001
12-00069	12-00082	12-00016	12-01043	12-01113	12-00031	12-00026
11-00742	11-00844	11-00072	11-00895	11-00968	11-00069	11-00004
10-00216	10-00240	10-00060	10-00254	10-00296	10-00060	10-00005
09-00014	09-01016	09-00053	09-01064	09-01121	09-00062	09-00006
08-00007	08-00000	08-00000	08-00000	08-00005	08-00016	08-00007
07-00062	07-00066	07-00072	07-00069	07-00076	07-00074	07-00001
06-01948	06-01734	06-00066	06-01823	06-01897	06-00014	06-00006
05-01311	05-01403	05-00083	05-01559	05-01618	05-00132	05-00010
04-01137	04-01288	04-00044	04-01359	04-01436	04-00036	04-00000
03-00090	03-00250	03-00070	03-00079	03-00069	03-00071	03-00005
02-00557	02-00628	02-00072	02-00662	02-00698	02-00074	02-00002
01-01203	01-01352	01-00054	01-01417	01-01469	01-00026	01-00024
00-01782	00-01963	00-00027	00-01963	00-02101	00-00179	00-00000
0193216	0183030	0184236	0185620	0180430	0180000	0181170
00726790	00726790	00726790	00726790	00726790	00726790	00726790

TER073

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Normal Pressure

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PRE TEST	POST TEST
K CAL	K CAL
83-00060	83-00060
82-00074	82-00074
81-00086	81-00086
80-00095	80-00095
79-00109	79-00109
78-00040	78-00040
77-00034	77-00034
76-00317	76-00317
75-00028	75-00028
74-00339	74-00339
73-00047	73-00047
72-00045	72-00045
71-00035	71-00035
70-00033	70-00033
69-00081	69-00081
68-00197	68-00197
67-00256	67-00256
66-00069	66-00069
65-00043	65-00043
64-00087	64-00087
63-00221	63-00221
62-00102	62-00102
61-00002	61-00002
60-00002	60-00002
59-00977	59-00977
58-01431	58-01431
57-01433	57-01433
56-01431	56-01431
55-01430	55-01430
54-01434	54-01434
53-01433	53-01433
52-01434	52-01434
51-01431	51-01431
50-01431	50-01431
49-01434	49-01434
48-01426	48-01426
47-01426	47-01426
46-01427	46-01427
45-01429	45-01429
44-01427	44-01427
43-01428	43-01428
42-01424	42-01424
41-01424	41-01424
40-01430	40-01430
39-01436	39-01436
38-01428	38-01428
37-01433	37-01433
36-01432	36-01432
35-01426	35-01426
34-01433	34-01433
33-01433	33-01433
32-01436	32-01436
31-01437	31-01437
30-01430	30-01430
29-01431	29-01431
28-01424	28-01424
27-01427	27-01427
26-01426	26-01426
25-01424	25-01424
24-01426	24-01426
23-01428	23-01428
22-01431	22-01431
21-01432	21-01432
20-01425	20-01425
19-01431	19-01431
18-01427	18-01427
17-01427	17-01427
16-01428	16-01428
15-01428	15-01428
14-01428	14-01428
13-01426	13-01426
12-01428	12-01428
11-01426	11-01426
10-01428	10-01428
09-01426	09-01426
08-01426	08-01426
07-01426	07-01426
06-01426	06-01426
05-01426	05-01426
04-01425	04-01425
03-01424	03-01424
02-01427	02-01427
01-01429	01-01429
00-01426	00-01426
0143130	0143130
00726790	00726790

CALCULATED

PANEL AREA = 10.768 IN.²

AXIAL COMPRESSION TEST ON TT802041-3 MOD.

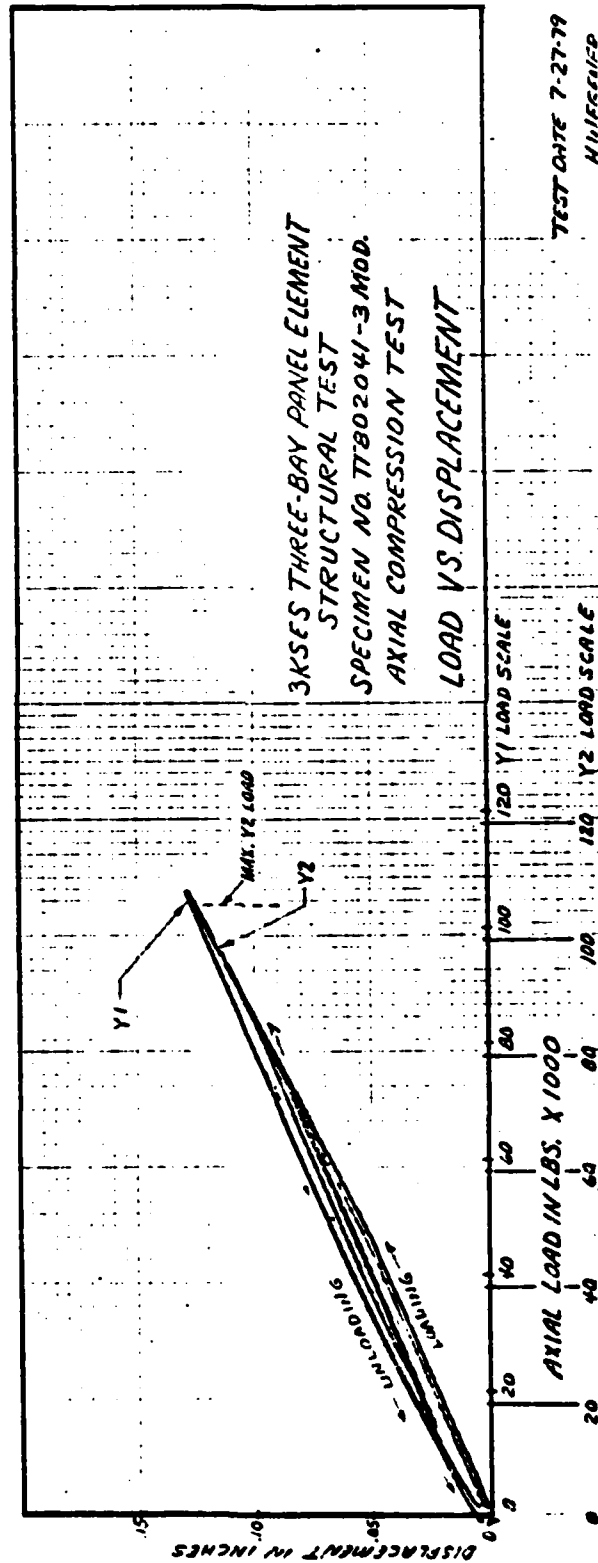
TEST DATE 7-27-79

REF. TTP00017 TP3.5.2.2

3/16" STIFFENER OFFSET)

[illegible]

TER073



B-772

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression Page 1 of 2

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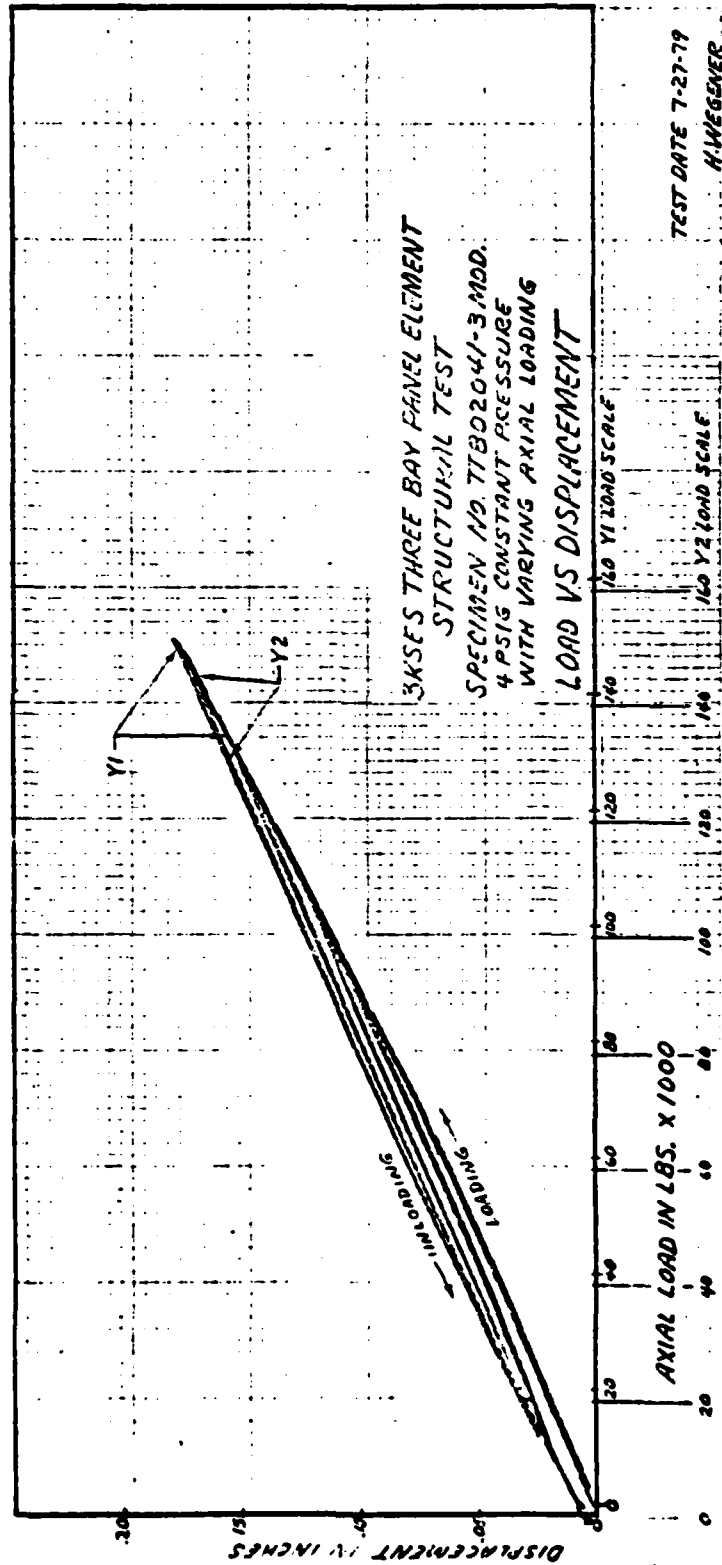
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression Page 2 of 2

[illegible]

CALCULATED
 THREE-BAY ELEMENT COMBINED LOADING TEST
 AXIAL AREA = 10.768 IN.² AXIAL COMPRESSION & PRESSURE TEST ON T7802041-3 MOD. TEST DATE 7-27-79
 REF. YTP00017 P. 3.5, 2, 3 (3/4" STIFFENER OFFSET)

DATA No.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESS. PSI	IN. Hg.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD. CYL. PIN IN.	HYD. CYL. PIN OUT
ACP0	0	0	0	0	.100	.100	.100	.100	.500		
ACP1	0	0	0	0	.100	.100	.100	.101	.500		
ACP1a	0	0	4	8.14	.101	.101	.138	.132	.503		
ACP2	2,000	21,536	4	1	.103	.103	.140	.131	.486		
ACP3	4,000	43,072	4		.105	.106	.142	.129	.468		
ACP4	6,000	64,608	4		.108	.110	.146	.125	.448		
ACP5	8,000	86,144	4		.113	.116	.152	.122	.425		
ACP6	10,000	107,680	4		.119	.123	.161	.118	.403		
ACP7	2,000	21,536	4		.109	.110	.142	.130	.481		
ACP8	11,000	118,448	4		.122	.126	.168	.118	.392		
ACP9	12,000	129,216	4		.125	.129	.179	.110	.381		
ACP10	2,000	21,536	4		.109	.110	.143	.131	.481		
ACP11	12,000	139,984	4		.127	.132	.182	.119	.370		
ACP12	14,000	150,752	4		.130	.135	.190	.122	.360		
ACP13	2,000	21,536	4	1	.111	.113	.143	.130	.478		
ACP14	0	0	4	8.14	.106	.106	.140	.134	.501		
ACP15	0	0	0	0	.103	.103	.103	.102	.497	HYD. CYL. PIN IN.	
ACP16	0	0	0	0	.103	.103	.103	.102	.497	HYD. CYL. PIN OUT	

TER073



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TERO73
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 4 psig Normal Pressure Page 1 of 3

TERO73
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 4 psig Normal Pressure

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[illegible]

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 4 psig Normal Pressure Page 2 of 3

[illegible]

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 4 psig Normal Pressure Page 3 of 3

B-779

THREE-HAY ELEMENT COMBINED LOADING TEST

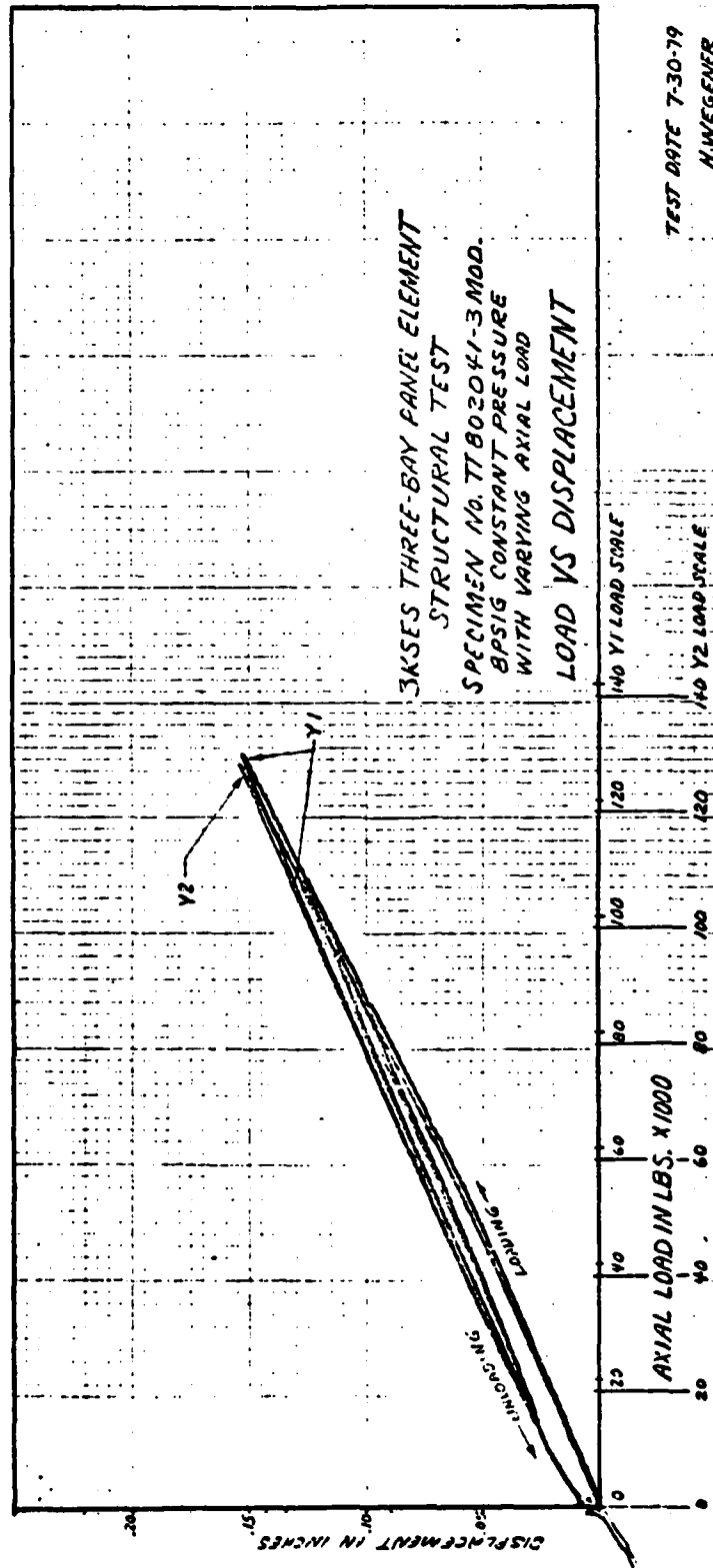
CALCULATED

PANEL AREA = 10.768 IN.² AXIAL COMPRESSION & PRESSURE TEST ON TT802044-3 MOD. TEST DATE 7-30-79

REF. TP00017 TP 3.5.2.3 (3/16" STIFFENER OFFSET)

[illegible]

TER073



B-781

TER073

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 8 psig Normal Pressure

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DATA No. ACP 0 8800 Pressure	DATA No. ACP1 8800 Pressure	DATA No. ACP12 8800 Pressure	DATA No. ACP2 8800 Pressure	DATA No. ACP3 8800 Pressure	DATA No. ACP4 8800 Pressure	DATA No. ACP5 8800 Pressure
03-00007	03-00007	03-00070	03-00070	03-00077	03-00077	03-00077
02-00002	02-00002	02-00030	02-00030	02-00030	02-00030	02-00030
01-00001	01-00001	01-00040	01-00040	01-00040	01-00040	01-00040
00-00000	00-00000	00-00050	00-00050	00-00050	00-00050	00-00050
79-00001	79-00001	79-00003	79-00003	79-00007	79-00007	79-00007
78-00001	78-00001	78-00009	78-00009	78-00009	78-00009	78-00009
77-00001	77-00001	77-00001	77-00001	77-00004	77-00004	77-00004
76-00001	76-00001	76-00026	76-00026	76-00016	76-00016	76-00016
75-00001	75-00001	75-00009	75-00009	75-00067	75-00067	75-00067
74-00000	74-00001	74-00005	74-00005	74-00004	74-00004	74-00004
73-00001	73-00002	73-00009	73-00009	73-00066	73-00066	73-00066
72-00001	72-00001	72-00009	72-00009	72-00009	72-00009	72-00009
71-00003	71-00002	71-00077	71-00077	71-00009	71-00009	71-00009
70-00002	70-00001	70-00005	70-00005	70-00005	70-00005	70-00005
69-00001	69-00003	69-00040	69-00040	69-00001	69-00001	69-00001
68-00001	68-00001	68-00010	68-00010	68-00010	68-00010	68-00010
67-00002	67-00002	67-00005	67-00005	67-00011	67-00011	67-00011
66-00003	66-00003	66-00003	66-00003	66-00002	66-00002	66-00002
65-00001	65-00001	65-00002	65-00002	65-00003	65-00003	65-00003
64-00000	64-00000	64-00020	64-00020	64-00020	64-00020	64-00020
63-00002	63-00002	63-00027	63-00027	63-00026	63-00026	63-00026
62-00001	62-00001	62-00040	62-00040	62-00040	62-00040	62-00040
61-00000	61-00000	61-00065	61-00065	61-00070	61-00070	61-00070
60-00001	60-00001	60-00001	60-00001	60-00026	60-00026	60-00026
59-01003	59-00074	59-00062	59-00062	59-00064	59-00064	59-00064
58-00004	58-00004	58-00004	58-00004	58-00001	58-00001	58-00001
57-00002	57-00002	57-00018	57-00018	57-00049	57-00049	57-00049
56-00003	56-00002	56-00002	56-00002	56-00010	56-00010	56-00010
55-00003	55-00003	55-00074	55-00074	55-00069	55-00069	55-00069
54-00002	54-00001	54-00001	54-00001	54-00002	54-00002	54-00002
53-00003	53-00002	53-00010	53-00010	53-00059	53-00059	53-00059
52-00003	52-00003	52-00020	52-00020	52-00067	52-00067	52-00067
51-00003	51-00001	51-00030	51-00030	51-00004	51-00004	51-00004
50-00003	50-00003	50-00003	50-00003	50-00003	50-00003	50-00003
49-00001	49-00001	49-00035	49-00035	49-00005	49-00005	49-00005
48-00000	48-00000	48-00006	48-00006	48-00006	48-00006	48-00006
47-00002	47-00002	47-00047	47-00047	47-00036	47-00036	47-00036
46-00000	46-00001	46-00010	46-00010	46-00009	46-00009	46-00009
45-00000	45-00000	45-00034	45-00034	45-00022	45-00022	45-00022
44-00003	44-00002	44-00027	44-00027	44-00005	44-00005	44-00005
43-00003	43-00003	43-00006	43-00006	43-00052	43-00052	43-00052
42-00002	42-00000	42-00004	42-00004	42-00003	42-00003	42-00003
41-00004	41-00004	41-00015	41-00015	41-00051	41-00051	41-00051
40-00004	40-00004	40-00020	40-00020	40-00042	40-00042	40-00042
39-00001	39-00002	39-00061	39-00061	39-00002	39-00002	39-00002
38-00000	38-00000	38-00000	38-00000	38-00000	38-00000	38-00000
37-00004	37-00003	37-00070	37-00070	37-00042	37-00042	37-00042
36-00002	36-00004	36-00000	36-00000	36-00027	36-00027	36-00027
35-00003	35-00003	35-00001	35-00001	35-00007	35-00007	35-00007
34-00003	34-00003	34-00041	34-00041	34-00070	34-00070	34-00070
33-00003	33-00003	33-00040	33-00040	33-00059	33-00059	33-00059
32-00002	32-00002	32-00017	32-00017	32-00030	32-00030	32-00030
31-00002	31-00001	31-00030	31-00030	31-00012	31-00012	31-00012
30-00004	30-00002	30-00002	30-00002	30-00012	30-00012	30-00012
29-00002	29-00003	29-00066	29-00066	29-00030	29-00030	29-00030
28-00000	28-00000	28-00070	28-00070	28-00045	28-00045	28-00045
27-00001	27-00001	27-00070	27-00070	27-00062	27-00062	27-00062
26-00000	26-00000	26-00006	26-00006	26-00039	26-00039	26-00039
25-00001	25-00002	25-00044	25-00044	25-00035	25-00035	25-00035
24-00003	24-00003	24-00010	24-00010	24-00029	24-00029	24-00029
23-00001	23-00001	23-00044	23-00044	23-00021	23-00021	23-00021
22-00001	22-00002	22-00070	22-00070	22-00045	22-00045	22-00045
21-00000	21-00001	21-00015	21-00015	21-00037	21-00037	21-00037
20-00001	20-00002	20-00000	20-00000	20-00020	20-00020	20-00020
19-00001	19-00001	19-00060	19-00060	19-00007	19-00007	19-00007
18-00001	18-00002	18-00060	18-00060	18-00070	18-00070	18-00070
17-00000	17-00001	17-00065	17-00065	17-00010	17-00010	17-00010
16-00003	16-00003	16-00013	16-00013	16-00040	16-00040	16-00040
15-00001	15-00001	15-00090	15-00090	15-00006	15-00006	15-00006
14-00001	14-00003	14-00041	14-00041	14-00029	14-00029	14-00029
13-00002	13-00002	13-00045	13-00045	13-00055	13-00055	13-00055
12-00003	12-00004	12-00043	12-00043	12-00040	12-00040	12-00040
11-00002	11-00003	11-00040	11-00040	11-00017	11-00017	11-00017
10-00002	10-00002	10-00013	10-00013	10-00045	10-00045	10-00045
09-00000	09-00003	09-00040	09-00040	09-00075	09-00075	09-00075
08-00003	08-00003	08-00060	08-00060	08-00022	08-00022	08-00022
07-00001	07-00002	07-00020	07-00020	07-00043	07-00043	07-00043
06-00001	06-00002	06-00070	06-00070	06-00010	06-00010	06-00010
05-00001	05-00012	05-00050	05-00050	05-00071	05-00071	05-00071
04-00001	04-00002	04-00050	04-00050	04-00033	04-00033	04-00033
03-00001	03-00002	03-00020	03-00020	03-00090	03-00090	03-00090
02-00000	02-00001	02-00010	02-00010	02-00047	02-00047	02-00047
01-00000	01-00000	01-00011	01-00011	01-00002	01-00002	01-00002
00-00003	00-00000	00-00000	00-00000	00-00015	00-00015	00-00015
00-00000	00-00000	00-00000	00-00000	00-00000	00-00000	00-00000

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Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 8 psia Normal Pressure

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DATA No. ACP6	DATA No. ACP7	DATA No. ACP8	DATA No. ACP9	DATA No. ACP10	DATA No. ACP11	DATA No. ACP12
107.7000 8PSIG	21.5000 8PSIG	12.9000 8PSIG	25.0000 8PSIG	25.0000 8PSIG	11.0000 8PSIG	11.0000 8PSIG
83-00008	83-00007	83-00008	83-00009	83-00008	83-00009	83-00008
82-00008	82-00007	82-00007	82-00008	82-00008	82-00009	82-00008
81-00008	81-00007	81-00007	81-00008	81-00008	81-00009	81-00008
80-00008	80-00007	80-00007	80-00008	80-00008	80-00009	80-00008
79-00008	79-00007	79-00007	79-00008	79-00008	79-00009	79-00008
78-00008	78-00007	78-00007	78-00008	78-00008	78-00009	78-00008
77-00008	77-00007	77-00007	77-00008	77-00008	77-00009	77-00008
76-00008	76-00007	76-00007	76-00008	76-00008	76-00009	76-00008
75-00008	75-00007	75-00007	75-00008	75-00008	75-00009	75-00008
74-00008	74-00007	74-00007	74-00008	74-00008	74-00009	74-00008
73-00008	73-00007	73-00007	73-00008	73-00008	73-00009	73-00008
72-00008	72-00007	72-00007	72-00008	72-00008	72-00009	72-00008
71-00008	71-00007	71-00007	71-00008	71-00008	71-00009	71-00008
70-00008	70-00007	70-00007	70-00008	70-00008	70-00009	70-00008
69-00008	69-00007	69-00007	69-00008	69-00008	69-00009	69-00008
68-00008	68-00007	68-00007	68-00008	68-00008	68-00009	68-00008
67-00008	67-00007	67-00007	67-00008	67-00008	67-00009	67-00008
66-00008	66-00007	66-00007	66-00008	66-00008	66-00009	66-00008
65-00008	65-00007	65-00007	65-00008	65-00008	65-00009	65-00008
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43-00008	43-00007	43-00007	43-00008	43-00008	43-00009	43-00008
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16-00008	16-00007	16-00007	16-00008	16-00008	16-00009	16-00008
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2-00008	2-00007	2-00007	2-00008	2-00008	2-00009	2-00008
1-00008	1-00007	1-00007	1-00008	1-00008	1-00009	1-00008
0-00008	0-00007	0-00007	0-00008	0-00008	0-00009	0-00008

TER073

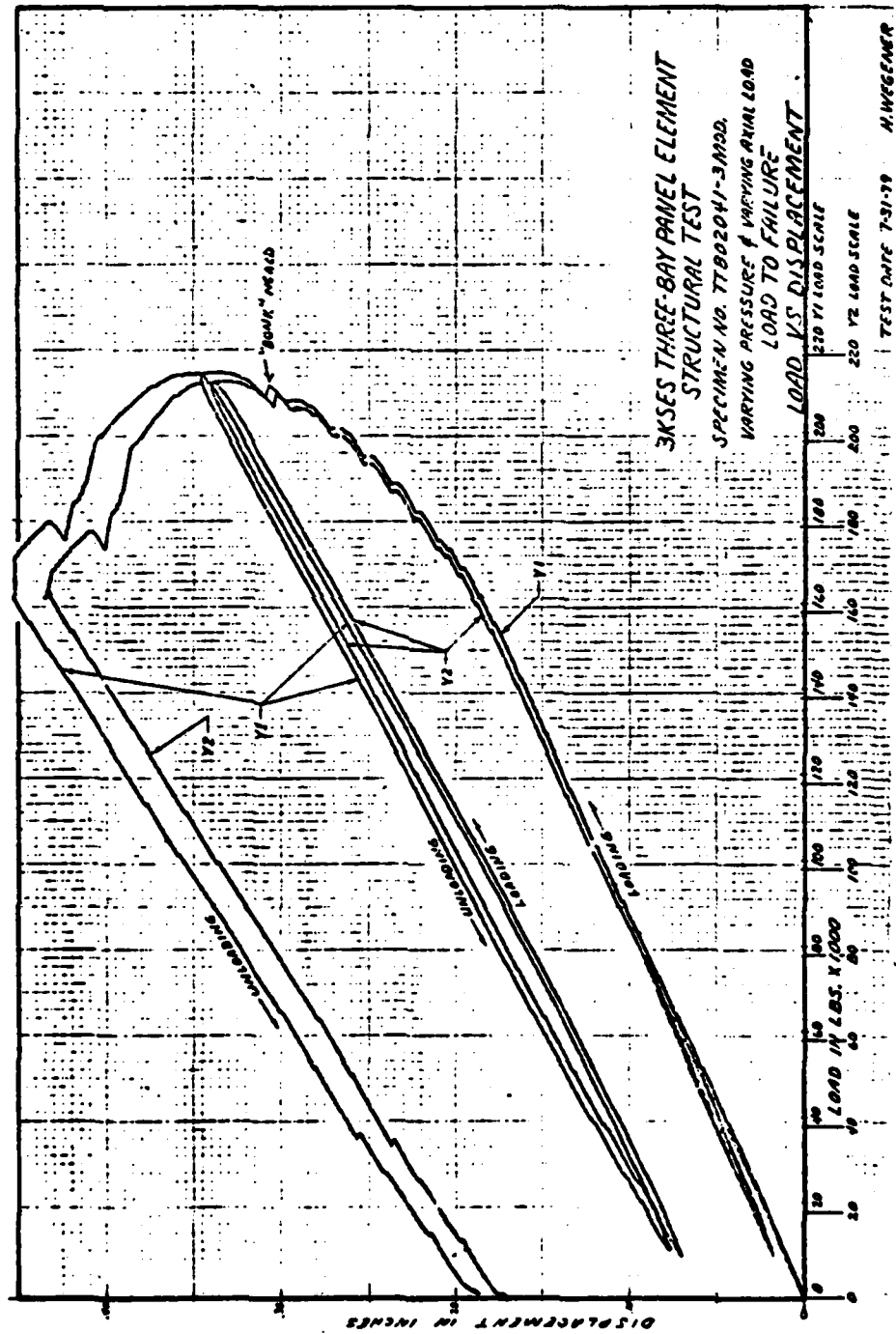
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Elastic Axial Compression with 8 psig Normal Pressure

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PRE-TEST R CAL	POST-TEST R CAL
83-00064	83-00067
82-00067	82-00068
81-00081	81-00074
80-00100	80-00101
79-00109	79-00112
78-00034	78-00033
77-00061	77-00060
76-00016	76-00018
75-00028	75-00025
74-00038	74-00041
73-00033	73-00031
72-00054	72-00056
71-00025	71-00022
70-00038	70-00040
69-00077	69-00074
68-00194	68-00199
67-00289	67-00272
66-00075	66-00078
65-00035	65-00032
64-00093	64-00095
63-00226	63-00229
62-00103	62-00105
61-00007	61-00009
60-0178A	60-0176A
59-01107	59-01038
58-01432	58-01430
57-01433	57-01431
56-01430	56-01420
55-01431	55-01430
54-0142A	54-01432
53-0142B	53-01425
52-01429	52-01427
51-01433	51-01437
50-01430	50-01429
49-0143J	49-01434
48-01425	48-01424
47-0142B	47-01425
46-01425	46-01422
45-01427	45-01423
44-01428	44-0142J
43-01430	43-01424
42-01427	42-01429
41-0143A	41-01475
40-01432	40-01432
39-01427	39-01426
38-01430	38-01434
37-01432	37-01434
36-01431	36-01427
35-01428	35-01426
34-0143J	34-01430
33-01433	33-01424
32-01431	32-01428
31-01431	31-01430
30-01424	30-01426
29-0142A	29-01425
28-0142B	28-01424
27-01430	27-01428
26-01427	26-01426
25-01432	25-01428
24-01424	24-01430
23-01426	23-01423
22-01427	22-01425
21-01425	21-01421
20-0142F	20-01426
19-01433	19-01436
18-01424	18-01427
17-01428	17-01425
16-01430	16-01431
15-01428	15-01426
14-0142B	14-01427
13-01427	13-01427
12-0142B	12-01424
11-01427	11-01426
10-0142A	10-01423
09-01424	09-01417
08-01424	08-01411
07-01423	07-01423
06-01423	06-01420
05-01424	05-01420
04-01427	04-01422
03-01425	03-01421
02-01426	02-01424
01-01427	01-01424
00-01423	00-01416
0133040	0133030
00730700	00730700

THREE-BAY ELEMENT COMBINED LOADING TEST														
ANALOG COMPRESSION PRESSURE TEST ON T78020H-3 MOD. TEST DATE 7-31-79														
REF TO POINT 7.3.5.2.5 LOAD TO FAILURE (3/4 STIFFNESS OFFSET)														
DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESSURE PSIG	WHL IN. IN	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD. CYL. PIN IN	HYD. CYL. PIN IN			
ACP0	0	0	0	0	100	100	100	100	500					
ACP1	0	0	0	0	100	100	100	100	500					
ACP1a	1,210	13,000	2	4.07	102	102	130	122	491					
ACP2	2,420	26,100	4	8.14	105	105	135	126	490					
ACP3	3,630	39,100	6	12.22	108	108	141	125	466					
ACP4	4,840	52,100	8	16.29	111	111	144	119	451					
ACP5	6,050	65,100	10	20.36	115	115	149	115	335					
ACP6	7,250	78,100	12	24.43	117	120	154	111	418					
ACP7*	1,210	13,000	2	4.07	108	109	134	125	486					
ACP8	8,460	91,100	14	28.50	121	124	161	113	404					
ACP9	9,670	104,100	16	32.58	124	128	169	106	391					
ACP10	10,880	117,200	18	36.65	126	130	178	104	379					
ACP11	12,090	130,200	20	40.72	128	132	191	104	368					
ACP12	13,300	143,200	22	44.79	129	134	209	107	357					
ACP13	14,510	156,200	24	48.86	130	135	236	115	347					
ACP14	15,720	169,300	25	52.90	130	135	254	124	342					
ACP15	15,720	169,300	26	52.94	130	135	276	139	335					
ACP16	16,930	175,300	27	54.97	130	135	286	152	329					
ACP17	16,930	182,300	28	57.01	130	135	309	169	323					
ACP18	17,530	188,800	29	57.04	130	135	330	191	317					
ACP19	18,140	195,300	30	61.08	129	134	375	216	310					
ACP20	18,740	201,800	31	63.12	129	134	419	250	304					
ACP21	19,310	208,300	32	65.15	129	133	480	293	295					
ACP22	19,950	214,800*	33*	67.19	126	132	515	408	283					
ACP23	1,210	13,000	2	4.07	097	099	382	285	468					
ACP24	17,950	214,800**	33**	67.19	117	125	—	426	—					

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Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Proportional Axial Compression and Normal Pressure to Failure Page 1 of 4

DATA No. ACPO HYD CYL P IN OUT 2500 PSI	DATA No. ACPI HYD CYL P IN OUT 2500 PSI	DATA No. ACPI 13,000 PSI 2500 PSI	DATA No. ACPI 26,000 PSI 2500 PSI	DATA No. ACPI 39,000 PSI 2500 PSI	DATA No. ACPI 52,000 PSI 2500 PSI	DATA No. ACPI 65,000 PSI 2500 PSI
83-00001	83-00001	83-00001	83-00001	83-00001	83-00001	83-00001
82-00003	82-00003	82-00003	82-00003	82-00003	82-00003	82-00003
81-00001	81-00001	81-00001	81-00001	81-00001	81-00001	81-00001
80-00003	80-00003	80-00003	80-00003	80-00003	80-00003	80-00003
79-00000	79-00000	79-00000	79-00000	79-00000	79-00000	79-00000
78-00003	78-00003	78-00003	78-00003	78-00003	78-00003	78-00003
77-00003	77-00003	77-00003	77-00003	77-00003	77-00003	77-00003
76-00004	76-00004	76-00004	76-00004	76-00004	76-00004	76-00004
75-00000	75-00000	75-00000	75-00000	75-00000	75-00000	75-00000
74-00000	74-00000	74-00000	74-00000	74-00000	74-00000	74-00000
73-00000	73-00000	73-00000	73-00000	73-00000	73-00000	73-00000
72-00000	72-00000	72-00000	72-00000	72-00000	72-00000	72-00000
71-00000	71-00000	71-00000	71-00000	71-00000	71-00000	71-00000
70-00001	70-00001	70-00001	70-00001	70-00001	70-00001	70-00001
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68-00000	68-00000	68-00000	68-00000	68-00000	68-00000	68-00000
67-00000	67-00000	67-00000	67-00000	67-00000	67-00000	67-00000
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60-00004	60-00004	60-00004	60-00004	60-00004	60-00004	60-00004
59-01153	59-01129	59-01129	59-01180	59-01107	59-01084	59-01061
58-00004	58-00003	58-00004	58-00003	58-00003	58-00003	58-00003
57-00001	57-00007	57-00072	57-00135	57-00189	57-00223	57-00253
56-00003	56-00001	56-00195	56-00435	56-00716	56-01064	56-01424
55-00002	55-00001	55-00040	55-00126	55-00240	55-00399	55-00558
54-00003	54-00004	54-00063	54-00103	54-00137	54-00156	54-00174
53-00005	53-00001	53-00165	53-00444	53-00791	53-01110	53-01478
52-00005	52-00002	52-00096	52-00273	52-00464	52-00685	52-00906
51-00004	51-00003	51-00033	51-00094	51-00166	51-00225	51-00350
50-00004	50-00007	50-00233	50-00460	50-00685	50-00909	50-01134
49-00000	49-00004	49-00076	49-00116	49-00153	49-00181	49-00207
48-00003	48-00000	48-00049	48-00067	48-00073	48-00081	48-00090
47-00002	47-00002	47-00112	47-00383	47-00669	47-00955	47-01241
46-00001	46-00004	46-00107	46-00159	46-00213	46-00263	46-00313
45-00002	45-00001	45-00032	45-00120	45-00275	45-00438	45-00597
44-00002	44-00003	44-00072	44-00357	44-00647	44-00936	44-01226
43-00003	43-00004	43-00146	43-00278	43-00445	43-00621	43-00796
42-00005	42-00007	42-00042	42-00016	42-00096	42-00210	42-00322
41-00005	41-00004	41-00025	41-00024	41-00043	41-00085	41-00125
40-00003	40-00004	40-00126	40-00251	40-00374	40-00496	40-00613
39-00004	39-00006	39-00035	39-00063	39-00135	39-00190	39-00241
38-00000	38-00000	38-00000	38-00000	38-00000	38-00000	38-00000
37-00003	37-00004	37-00149	37-00295	37-00439	37-00581	37-00723
36-00004	36-00004	36-00050	36-00114	36-00166	36-00215	36-00260
35-00004	35-00004	35-00037	35-00058	35-00060	35-00060	35-00063
34-00000	34-00005	34-00099	34-00396	34-00591	34-00787	34-00981
33-00003	33-00004	33-00122	33-00259	33-00396	33-00536	33-00676
32-00003	32-00006	32-00016	32-00019	32-00044	32-00063	32-00071
31-00005	31-00004	31-00006	31-00006	31-00009	31-00037	31-00068
30-00007	30-00004	30-00104	30-00088	30-00052	30-00010	30-00073
29-00002	29-00002	29-00002	29-00002	29-00004	29-00043	29-00074
28-00001	28-00004	28-00030	28-00093	28-00174	28-00249	28-00316
27-00004	27-00006	27-00015	27-00096	27-00435	27-00569	27-00705
26-00002	26-00007	26-00125	26-00241	26-00353	26-00454	26-00560
25-00002	25-00003	25-00094	25-00200	25-00309	25-00427	25-00547
24-00001	24-00007	24-00165	24-00232	24-00302	24-00477	24-00597
23-00003	23-00003	23-00096	23-00379	23-00557	23-00735	23-00910
22-00000	22-00003	22-00132	22-00257	22-00377	22-00498	22-00614
21-00002	21-00007	21-00174	21-00327	21-00475	21-00619	21-00764
20-00003	20-00010	20-00101	20-00087	20-00057	20-00009	20-00046
19-00002	19-00009	19-00101	19-00098	19-00060	19-00048	19-00016
18-00006	18-00002	18-00191	18-00380	18-00569	18-00751	18-00933
17-00001	17-00003	17-00119	17-00247	17-00375	17-00505	17-00628
16-00002	16-00004	16-00149	16-00273	16-00391	16-00503	16-00611
15-00001	15-00006	15-00150	15-00305	15-00463	15-00601	15-00750
14-00001	14-00005	14-00040	14-00091	14-00128	14-00162	14-00185
13-00001	13-00002	13-00127	13-00238	13-00341	13-00440	13-00530
12-00000	12-00002	12-00126	12-00253	12-00381	12-00505	12-00626
11-00000	11-00001	11-00034	11-00094	11-00139	11-00186	11-00230
10-00003	10-00012	10-00167	10-00306	10-00443	10-00577	10-00713
09-00000	09-00016	09-00062	09-00060	09-00069	09-00154	09-00240
08-00003	08-00015	08-00049	08-00040	08-00062	08-00134	08-00215
07-00001	07-00010	07-00032	07-00058	07-00084	07-00110	07-00139
06-00003	06-00004	06-00054	06-00058	06-00081	06-00112	06-00141
05-00002	05-00006	05-00074	05-00060	05-00073	05-00093	05-00119
04-00003	04-00009	04-00057	04-00117	04-00182	04-00258	04-00337
03-00001	03-00010	03-00019	03-00099	03-00164	03-00231	03-00297
02-00001	02-00004	02-00026	02-00057	02-00084	02-00117	02-00149
01-00001	01-00007	01-00022	01-00030	01-00038	01-00049	01-00059
00-00000	00-00007	00-00012	00-00019	00-00026	00-00033	00-00039
0133720	0133720	0133720	0133720	0133720	0133720	0133720
06731790	06731790	06731790	06731790	06731790	06731790	06731790

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Proportional Axial Compression and Normal Pressure to Failure Page 2 of 4

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Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Proportional Axial Compression and Normal Pressure to Failure Page 3 of 4

DATA No. ACP 13	DATA No. ACP 14	DATA No. ACP 15	DATA No. ACP 16	DATA No. ACP 17	DATA No. ACP 18	DATA No. ACP 19
156,200 ² 24PSIG	162,700 ² 25PSIG	169,300 ² 26PSIG	175,700 ² 27PSIG	182,300 ² 28PSIG	188,800 ² 29PSIG	195,300 ² 30PSIG
83-000207	83-000216	83-000227	83-000230	83-000230	83-000237	83-000243
82-000170	82-000069	82-000074	82-000074	82-000079	82-000079	82-000082
81-000080	81-000071	81-000076	81-000100	81-000104	81-000109	81-000113
80-000050	80-000039	80-000045	80-000060	80-000060	80-000063	80-000065
79-000021	79-000021	79-000020	79-000031	79-000044	79-000056	79-000059
78-000036	78-000020	78-000020	78-000024	78-000027	78-000028	78-000031
77-000043	77-000042	77-000043	77-000043	77-000025	77-000036	77-000044
76-000004	76-000014	76-000013	76-000023	76-000032	76-000046	76-000060
75-000121	75-000111	75-000107	75-000104	75-000111	75-000113	75-000120
74-000068	74-000069	74-000077	74-000084	74-000089	74-000094	74-000096
73-000146	73-000149	73-000162	73-000172	73-000182	73-000194	73-000204
72-000343	72-000321	72-000350	72-000368	72-000391	72-000419	72-000450
71-000144	71-000146	71-000157	71-000166	71-000176	71-000190	71-000213
70-000055	70-000063	70-000072	70-000081	70-000086	70-000099	70-000109
69-000138	69-000120	69-000119	69-000114	69-000114	69-000115	69-000116
68-000025	68-000020	68-000012	68-000011	68-000012	68-000007	68-000021
67-000041	67-000040	67-000050	67-000043	67-000046	67-000059	67-000074
66-000243	66-000234	66-000272	66-000286	66-000306	66-000331	66-000359
65-000114	65-000119	65-000116	65-000117	65-000119	65-000137	65-000161
64-000032	64-000032	64-000036	64-000034	64-000036	64-000038	64-000061
63-000047	63-000046	63-000050	63-000052	63-000052	63-000054	63-000057
62-000082	62-000083	62-000087	62-000092	62-000097	62-000099	62-000104
61-000208	61-000203	61-000235	61-000244	61-000257	61-000274	61-000290
60-000155	60-000163	60-000161	60-000172	60-000188	60-000187	60-000193
59-000104	59-000099	59-000090	59-000093	59-000097	59-000093	59-000096
58-000000	58-000000	58-000000	58-000001	58-000000	58-000000	58-000000
57-000085	57-000082	57-000084	57-000089	57-000087	57-000080	57-000087
56-000000	56-000000	56-000000	56-000000	56-000000	56-000001	56-000001
55-000192	55-000187	55-000207	55-000237	55-000241	55-000242	55-000271
54-000234	54-000231	54-000231	54-000239	54-000239	54-000246	54-000257
53-000258	53-000253	53-000255	53-000279	53-000283	53-000297	53-000308
52-000264	52-000275	52-000280	52-000287	52-000292	52-000296	52-000307
51-000254	51-000266	51-000285	51-000299	51-000308	51-000312	51-000320
50-000281	50-000295	50-000316	50-000333	50-000358	50-000376	50-000390
49-000304	49-000325	49-000356	49-000383	49-000416	49-000456	49-000494
48-000270	48-000282	48-000291	48-000296	48-000306	48-000316	48-000328
47-000267	47-000276	47-000286	47-000284	47-000295	47-000310	47-000330
46-000591	46-000607	46-000642	46-000679	46-000691	46-000691	46-000655
45-000192	45-000212	45-000212	45-000224	45-000232	45-000246	45-000260
44-000250	44-000267	44-000281	44-000315	44-000323	44-000323	44-000341
43-000155	43-000166	43-000174	43-000184	43-000197	43-000216	43-000230
42-000162	42-000181	42-000179	42-000175	42-000198	42-000212	42-000253
41-000469	41-000440	41-000422	41-000415	41-000406	41-000400	41-000402
40-000966	40-000903	40-000862	40-000800	40-000711	40-000615	40-000517
39-000123	39-000075	39-000031	39-000077	39-000116	39-000132	39-000142
38-000000	38-000000	38-000000	38-000000	38-000000	38-000000	38-000000
37-000213	37-000044	37-000077	37-000078	37-000078	37-000053	37-000070
36-000067	36-000166	36-000465	36-000942	36-001139	36-001289	36-001411
35-000063	35-000016	35-000079	35-000010	35-000122	35-000253	35-000341
34-000201	34-000181	34-000126	34-000125	34-000120	34-000141	34-000140
33-000170	33-000090	33-000054	33-000046	33-000056	33-000085	33-000097
32-000132	32-000144	32-000144	32-000241	32-000245	32-000291	32-000319
31-000276	31-000319	31-000548	31-000946	31-001137	31-001330	31-001520
30-000043	30-000094	30-000573	30-000977	30-001067	30-001166	30-001222
29-000252	29-000241	29-000236	29-000359	29-000393	29-000425	29-000467
28-000154	28-000154	28-000154	28-000155	28-000160	28-000165	28-000175
27-000204	27-000224	27-000307	27-000307	27-000322	27-000338	27-000353
26-000085	26-000055	26-000019	26-000017	26-000037	26-000043	26-000063
25-000164	25-000180	25-000185	25-000189	25-000210	25-000217	25-000231
24-000271	24-000278	24-000307	24-000327	24-000372	24-000392	24-000411
23-000287	23-000285	23-000263	23-000271	23-000410	23-000467	23-000496
22-000126	22-000123	22-000114	22-000114	22-000153	22-000156	22-000167
21-000143	21-000246	21-000213	21-000200	21-000261	21-000307	21-000337
20-000041	20-000056	20-000014	20-000040	20-000040	20-000151	20-000183
19-000322	19-000425	19-000541	19-000930	19-001104	19-001285	19-001489
18-000170	18-000133	18-000157	18-000184	18-000216	18-000199	18-000135
17-000700	17-000076	17-000220	17-000464	17-000709	17-000916	17-001115
16-000507	16-000271	16-000131	16-000077	16-000062	16-000393	16-000725
15-000284	15-000389	15-000464	15-000467	15-000524	15-000523	15-000556
14-000061	14-000702	14-000498	14-000132	14-000142	14-000154	14-000167
13-000433	13-000272	13-000111	13-000129	13-000247	13-000336	13-000402
12-000015	12-000016	12-000099	12-000422	12-000429	12-000506	12-000648
11-000103	11-000281	11-000496	11-000947	11-001053	11-001190	11-001221
10-000179	10-000122	10-000275	10-000338	10-000373	10-000630	10-000666
9-000267	9-000144	9-000016	9-000021	9-000041	9-000064	9-000076
8-000067	8-000146	8-000125	8-000149	8-000167	8-000184	8-000194
7-000166	7-000131	7-000131	7-000115	7-000081	7-000045	7-000001
6-000204	6-000276	6-000291	6-000321	6-000323	6-000345	6-000375
5-000227	5-000243	5-000213	5-000259	5-000343	5-000325	5-000380
4-000179	4-000121	4-000134	4-000156	4-000165	4-000179	4-000209
3-000294	3-000276	3-000262	3-000275	3-000314	3-000340	3-000358
2-000196	2-000170	2-000134	2-000118	2-000084	2-000047	2-000000
1-000033	1-000041	1-000061	1-000079	1-000082	1-000091	1-000097
0-000000	0-000013	0-000050	0-000063	0-000053	0-000051	0-000042
0-000000	0-000000	0-000000	0-000000	0-000000	0-000000	0-000000
0-000000	0-000000	0-000000	0-000000	0-000000	0-000000	0-000000

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Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")
Proportional Axial Compression and Normal Pressure to Failure Page 4 of 4

DATA No. ACP20	DATA No. ACP21	DATA No. ACP22	DATA No. ACP23	DATA No. ACP24	POST TEST	PRE TEST
201,800	206,300	214,800	215,000	214,800	33,500	33,500
31,500	32,500	32,500	32,500	32,500	32,500	32,500
03-00250	03-00250	03-00250	03-00250	03-00250	03-00250	03-00250
02-00003	02-00003	02-00003	02-00003	02-00003	02-00003	02-00003
01-00117	01-00117	01-00117	01-00117	01-00117	01-00117	01-00117
00-00067	00-00067	00-00067	00-00067	00-00067	00-00067	00-00067
79-00003	79-00003	79-00003	79-00003	79-00003	79-00003	79-00003
78-00319	78-00319	78-00319	78-00319	78-00319	78-00319	78-00319
77-00052	77-00052	77-00052	77-00052	77-00052	77-00052	77-00052
76-00018	76-00018	76-00018	76-00018	76-00018	76-00018	76-00018
75-00124	75-00124	75-00124	75-00124	75-00124	75-00124	75-00124
74-00003	74-00003	74-00003	74-00003	74-00003	74-00003	74-00003
73-00227	73-00227	73-00227	73-00227	73-00227	73-00227	73-00227
72-00486	72-00486	72-00486	72-00486	72-00486	72-00486	72-00486
71-00216	71-00216	71-00216	71-00216	71-00216	71-00216	71-00216
70-00006	70-00006	70-00006	70-00006	70-00006	70-00006	70-00006
69-00119	69-00119	69-00119	69-00119	69-00119	69-00119	69-00119
68-00004	68-00004	68-00004	68-00004	68-00004	68-00004	68-00004
67-00005	67-00005	67-00005	67-00005	67-00005	67-00005	67-00005
66-00391	66-00391	66-00391	66-00391	66-00391	66-00391	66-00391
65-00049	65-00049	65-00049	65-00049	65-00049	65-00049	65-00049
64-00001	64-00001	64-00001	64-00001	64-00001	64-00001	64-00001
63-00057	63-00057	63-00057	63-00057	63-00057	63-00057	63-00057
62-00106	62-00106	62-00106	62-00106	62-00106	62-00106	62-00106
61-00308	61-00308	61-00308	61-00308	61-00308	61-00308	61-00308
60-02005	60-02005	60-02005	60-02005	60-02005	60-02005	60-02005
59-00035	59-00035	59-00035	59-00035	59-00035	59-00035	59-00035
58-00000	58-00000	58-00000	58-00000	58-00000	58-00000	58-00000
57-00079	57-00079	57-00079	57-00079	57-00079	57-00079	57-00079
56-00117	56-00117	56-00117	56-00117	56-00117	56-00117	56-00117
55-03006	55-03006	55-03006	55-03006	55-03006	55-03006	55-03006
54-00004	54-00004	54-00004	54-00004	54-00004	54-00004	54-00004
53-00169	53-00169	53-00169	53-00169	53-00169	53-00169	53-00169
52-07005	52-07005	52-07005	52-07005	52-07005	52-07005	52-07005
51-02273	51-02273	51-02273	51-02273	51-02273	51-02273	51-02273
50-03287	50-03287	50-03287	50-03287	50-03287	50-03287	50-03287
49-00097	49-00097	49-00097	49-00097	49-00097	49-00097	49-00097
48-03355	48-03355	48-03355	48-03355	48-03355	48-03355	48-03355
47-03895	47-03895	47-03895	47-03895	47-03895	47-03895	47-03895
46-00652	46-00652	46-00652	46-00652	46-00652	46-00652	46-00652
45-02677	45-02677	45-02677	45-02677	45-02677	45-02677	45-02677
44-05566	44-05566	44-05566	44-05566	44-05566	44-05566	44-05566
43-02886	43-02886	43-02886	43-02886	43-02886	43-02886	43-02886
42-02404	42-02404	42-02404	42-02404	42-02404	42-02404	42-02404
41-00693	41-00693	41-00693	41-00693	41-00693	41-00693	41-00693
40-00010	40-00010	40-00010	40-00010	40-00010	40-00010	40-00010
39-01524	39-01524	39-01524	39-01524	39-01524	39-01524	39-01524
38-00000	38-00000	38-00000	38-00000	38-00000	38-00000	38-00000
37-05188	37-05188	37-05188	37-05188	37-05188	37-05188	37-05188
36-01198	36-01198	36-01198	36-01198	36-01198	36-01198	36-01198
35-00403	35-00403	35-00403	35-00403	35-00403	35-00403	35-00403
34-01128	34-01128	34-01128	34-01128	34-01128	34-01128	34-01128
33-01124	33-01124	33-01124	33-01124	33-01124	33-01124	33-01124
32-03550	32-03550	32-03550	32-03550	32-03550	32-03550	32-03550
31-01815	31-01815	31-01815	31-01815	31-01815	31-01815	31-01815
30-01227	30-01227	30-01227	30-01227	30-01227	30-01227	30-01227
29-00131	29-00131	29-00131	29-00131	29-00131	29-00131	29-00131
28-01724	28-01724	28-01724	28-01724	28-01724	28-01724	28-01724
27-03670	27-03670	27-03670	27-03670	27-03670	27-03670	27-03670
26-01093	26-01093	26-01093	26-01093	26-01093	26-01093	26-01093
25-02482	25-02482	25-02482	25-02482	25-02482	25-02482	25-02482
24-00439	24-00439	24-00439	24-00439	24-00439	24-00439	24-00439
23-05525	23-05525	23-05525	23-05525	23-05525	23-05525	23-05525
22-01604	22-01604	22-01604	22-01604	22-01604	22-01604	22-01604
21-03757	21-03757	21-03757	21-03757	21-03757	21-03757	21-03757
20-01173	20-01173	20-01173	20-01173	20-01173	20-01173	20-01173
19-01735	19-01735	19-01735	19-01735	19-01735	19-01735	19-01735
18-01122	18-01122	18-01122	18-01122	18-01122	18-01122	18-01122
17-01390	17-01390	17-01390	17-01390	17-01390	17-01390	17-01390
16-02094	16-02094	16-02094	16-02094	16-02094	16-02094	16-02094
15-05726	15-05726	15-05726	15-05726	15-05726	15-05726	15-05726
14-01736	14-01736	14-01736	14-01736	14-01736	14-01736	14-01736
13-00498	13-00498	13-00498	13-00498	13-00498	13-00498	13-00498
12-00899	12-00899	12-00899	12-00899	12-00899	12-00899	12-00899
11-01306	11-01306	11-01306	11-01306	11-01306	11-01306	11-01306
10-03504	10-03504	10-03504	10-03504	10-03504	10-03504	10-03504
9-001370	9-001370	9-001370	9-001370	9-001370	9-001370	9-001370
8-002067	8-002067	8-002067	8-002067	8-002067	8-002067	8-002067
7-000048	7-000048	7-000048	7-000048	7-000048	7-000048	7-000048
6-004327	6-004327	6-004327	6-004327	6-004327	6-004327	6-004327
5-003977	5-003977	5-003977	5-003977	5-003977	5-003977	5-003977
4-002345	4-002345	4-002345	4-002345	4-002345	4-002345	4-002345
3-003001	3-003001	3-003001	3-003001	3-003001	3-003001	3-003001
2-000094	2-000094	2-000094	2-000094	2-000094	2-000094	2-000094
1-009743	1-009743	1-009743	1-009743	1-009743	1-009743	1-009743
0-007894	0-007894	0-007894	0-007894	0-007894	0-007894	0-007894
01504500	01504500	01504500	01504500	01504500	01504500	01504500
00131700	00131700	00131700	00131700	00131700	00131700	00131700

NORMAL PRESSURE TEST ON TI802041-3A MOD. TEST DATE 8-15-79
REF. TI000017 RP 3.5.2.1 (3 1/2" S' OFFENER OFFSET)

DATA No.	PRESSURE		DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.
	PSIG	IN.Hg	D1	D2	D3	D4	D5	D6	D7
P1	0	0	—	—	.100	.100	.500		
P2	2.0	4.07	—	—	.123	.128	.502		
P3	4.0	8.14	—	—	.126	.133	.500		
P4	6.0	12.22	—	—	.127	.135	.497		
P5	8.0	16.29	—	—	.127	.135	.492		
P6	2.0	4.07	—	—	.127	.130	.503		
P7	10.0	20.36	—	—	.130	.137	.488		
P8	12.0	24.43	—	—	.132	.139	.483		
P9	14.0	28.50	—	—	.135	.141	.477		
P10	2.0	4.07	—	—	.130	.136	.503		
P11	0	0	—	—	.115	.127	.503		

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Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")
Elastic Normal Pressure

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DATA No. P1	DATA No. P2	DATA No. P3	DATA No. P4	DATA No. P5	DATA No. P6	DATA No. P7
0.5PSIG	2.5PSIG	4.5PSIG	6.5PSIG	8.5PSIG	2.5PSIG	10.5PSIG
83-000000	83-000330	83-000488	83-000641	83-000777	83-000937	83-001092
82-000000	82-000424	82-000537	82-000640	82-000744	82-000853	82-000958
81-000000	81-000527	81-000641	81-000745	81-000853	81-000958	81-001063
80-000000	80-000627	80-000731	80-000835	80-000939	80-001043	80-001147
79-000001	79-000727	79-000831	79-000935	79-001039	79-001143	79-001247
78-000001	78-000827	78-000931	78-001035	78-001139	78-001243	78-001347
77-000001	77-000927	77-001031	77-001135	77-001239	77-001343	77-001447
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72-000001	72-001427	72-001531	72-001635	72-001739	72-001843	72-001947
71-000000	71-001527	71-001631	71-001735	71-001839	71-001943	71-002047
70-000000	70-001627	70-001731	70-001835	70-001939	70-002043	70-002147
69-000001	69-001727	69-001831	69-001935	69-002039	69-002143	69-002247
68-000001	68-001827	68-001931	68-002035	68-002139	68-002243	68-002347
67-000001	67-001927	67-002031	67-002135	67-002239	67-002343	67-002447
66-000001	66-002027	66-002131	66-002235	66-002339	66-002443	66-002547
65-000000	65-002127	65-002231	65-002335	65-002439	65-002543	65-002647
64-000001	64-002227	64-002331	64-002435	64-002539	64-002643	64-002747
63-000001	63-002327	63-002431	63-002535	63-002639	63-002743	63-002847
62-000000	62-002427	62-002531	62-002635	62-002739	62-002843	62-002947
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60-000003	60-002627	60-002731	60-002835	60-002939	60-003043	60-003147
59-000007	59-002727	59-002831	59-002935	59-003039	59-003143	59-003247
58-000000	58-002827	58-002931	58-003035	58-003139	58-003243	58-003347
57-000001	57-002927	57-003031	57-003135	57-003239	57-003343	57-003447
56-000002	56-003027	56-003131	56-003235	56-003339	56-003443	56-003547
55-000001	55-003127	55-003231	55-003335	55-003439	55-003543	55-003647
54-000001	54-003227	54-003331	54-003435	54-003539	54-003643	54-003747
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49-000002	49-003727	49-003831	49-003935	49-004039	49-004143	49-004247
48-000001	48-003827	48-003931	48-004035	48-004139	48-004243	48-004347
47-000000	47-003927	47-004031	47-004135	47-004239	47-004343	47-004447
46-000003	46-004027	46-004131	46-004235	46-004339	46-004443	46-004547
45-000001	45-004127	45-004231	45-004335	45-004439	45-004543	45-004647
44-000001	44-004227	44-004331	44-004435	44-004539	44-004643	44-004747
43-000002	43-004327	43-004431	43-004535	43-004639	43-004743	43-004847
42-000001	42-004427	42-004531	42-004635	42-004739	42-004843	42-004947
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40-000000	40-004627	40-004731	40-004835	40-004939	40-005043	40-005147
39-000002	39-004727	39-004831	39-004935	39-005039	39-005143	39-005247
38-000003	38-004827	38-004931	38-005035	38-005139	38-005243	38-005347
37-000001	37-004927	37-005031	37-005135	37-005239	37-005343	37-005447
36-000002	36-005027	36-005131	36-005235	36-005339	36-005443	36-005547
35-000001	35-005127	35-005231	35-005335	35-005439	35-005543	35-005647
34-000004	34-005227	34-005331	34-005435	34-005539	34-005643	34-005747
33-000000	33-005327	33-005431	33-005535	33-005639	33-005743	33-005847
32-000000	32-005427	32-005531	32-005635	32-005739	32-005843	32-005947
31-000004	31-005527	31-005631	31-005735	31-005839	31-005943	31-006047
30-000002	30-005627	30-005731	30-005835	30-005939	30-006043	30-006147
29-000001	29-005727	29-005831	29-005935	29-006039	29-006143	29-006247
28-000001	28-005827	28-005931	28-006035	28-006139	28-006243	28-006347
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25-000001	25-006127	25-006231	25-006335	25-006439	25-006543	25-006647
24-000000	24-006227	24-006331	24-006435	24-006539	24-006643	24-006747
23-000001	23-006327	23-006431	23-006535	23-006639	23-006743	23-006847
22-000006	22-006427	22-006531	22-006635	22-006739	22-006843	22-006947
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20-000000	20-006627	20-006731	20-006835	20-006939	20-007043	20-007147
19-000002	19-006727	19-006831	19-006935	19-007039	19-007143	19-007247
18-000001	18-006827	18-006931	18-007035	18-007139	18-007243	18-007347
17-000002	17-006927	17-007031	17-007135	17-007239	17-007343	17-007447
16-000001	16-007027	16-007131	16-007235	16-007339	16-007443	16-007547
15-000000	15-007127	15-007231	15-007335	15-007439	15-007543	15-007647
14-000001	14-007227	14-007331	14-007435	14-007539	14-007643	14-007747
13-000001	13-007327	13-007431	13-007535	13-007639	13-007743	13-007847
12-000000	12-007427	12-007531	12-007635	12-007739	12-007843	12-007947
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09-000000	09-007727	09-007831	09-007935	09-008039	09-008143	09-008247
08-000001	08-007827	08-007931	08-008035	08-008139	08-008243	08-008347
07-000001	07-007927	07-008031	07-008135	07-008239	07-008343	07-008447
06-000000	06-008027	06-008131	06-008235	06-008339	06-008443	06-008547
05-000000	05-008127	05-008231	05-008335	05-008439	05-008543	05-008647
04-000003	04-008227	04-008331	04-008435	04-008539	04-008643	04-008747
03-000001	03-008327	03-008431	03-008535	03-008639	03-008743	03-008847
02-000002	02-008427	02-008531	02-008635	02-008739	02-008843	02-008947
01-000007	01-008527	01-008631	01-008735	01-008839	01-008943	01-009047
00-000001	00-008627	00-008731	00-008835	00-008939	00-009043	00-009147
01334180	01334180	01334180	01334180	01334180	01334180	01334180
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TER073

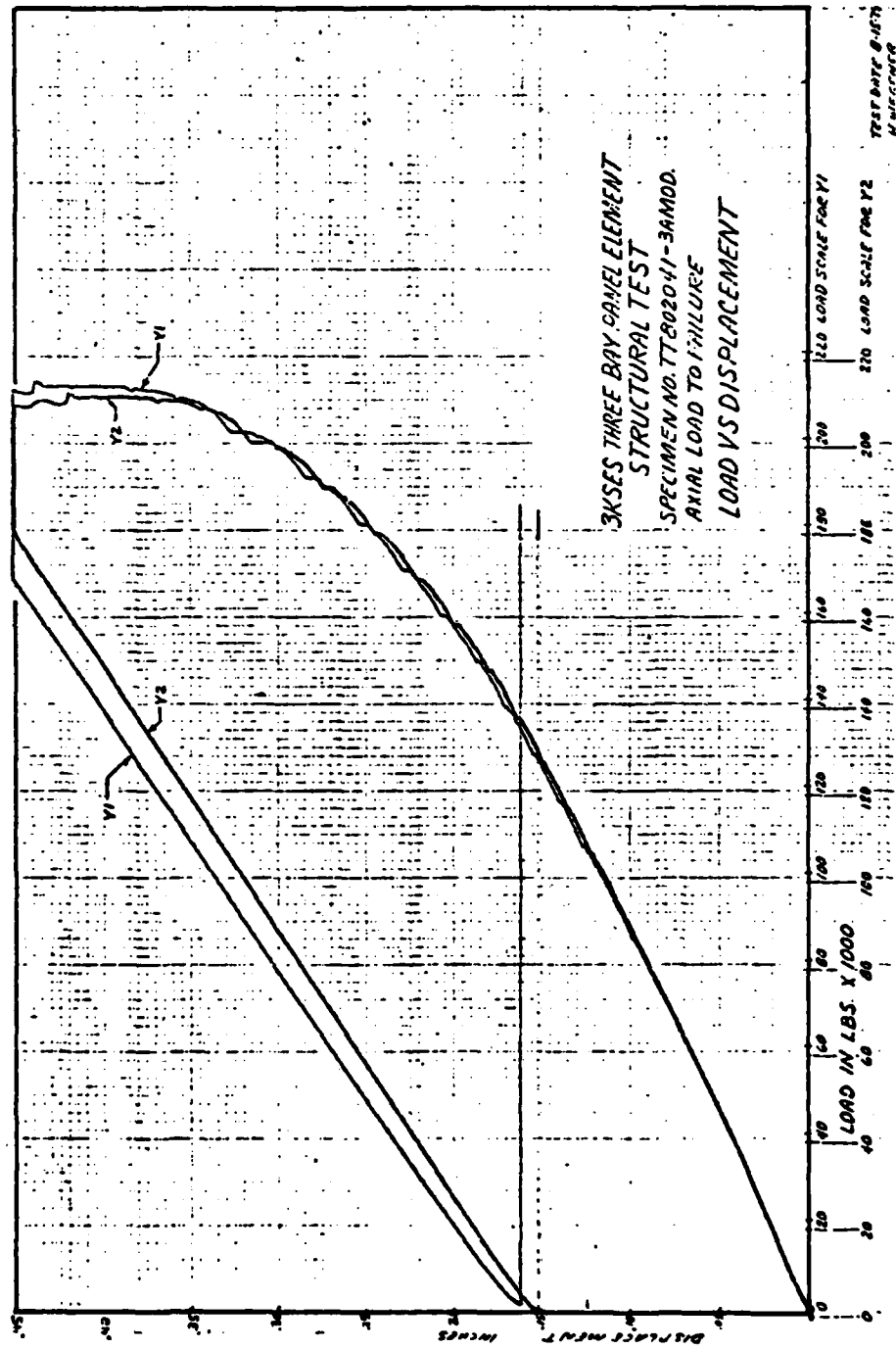
Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")
Elastic Normal Pressure

Page 2 of 2

DATA No. P8 12 PSIG	DATA No. P9 14 PSIG	DATA No. P10 2.0 PSIG	DATA No. P11 0 PSIG	PRETEST P CAL	POST TEST P CAL
83-00109	83-00124	83-00037	83-00021	83-00052	83-00053
82-00053	82-00057	82-00037	82-00017	82-00057	82-00054
81-00068	81-00077	81-00040	81-00021	81-00050	81-00052
80-00044	80-00046	80-00030	80-00020	80-00002	80-00005
79-00003	79-00005	79-00003	79-00000	79-00180	79-00119
78-00126	78-00144	78-00048	78-00026	78-00086	78-00086
77-00002	77-00002	77-00002	77-00005	77-00040	77-00038
76-00042	76-00044	76-00007	76-00002	76-00152	76-00150
75-00150	75-00156	75-00055	75-00028	75-00069	75-00072
74-00004	74-00004	74-00004	74-00001	74-00072	74-00074
73-00105	73-00116	73-00053	73-00033	73-00006	73-00006
72-00138	72-00157	72-00054	72-00030	72-00032	72-00034
71-00107	71-00120	71-00053	71-00037	71-00005	71-00002
70-00015	70-00014	70-00006	70-00005	70-00181	70-00178
69-00153	69-00170	69-00057	69-00032	69-00081	69-00077
68-00034	68-00037	68-00010	68-00003	68-00047	68-00044
67-00001	67-00004	67-00001	67-00001	67-00089	67-00089
66-00122	66-00136	66-00049	66-00031	66-00027	66-00029
65-00003	65-00003	65-00003	65-00003	65-00253	65-00250
64-00046	64-00049	64-00027	64-00019	64-00220	64-00222
63-00049	63-00053	63-00035	63-00030	63-00059	63-00061
62-00060	62-00070	62-00034	62-00024	62-00048	62-00049
61-00105	61-00112	61-00037	61-00025	61-00059	61-00057
60-00003	60-00004	60-00003	60-00007	60-00179	60-00006
59-00075	59-00073	59-00061	59-00031	59-00002	59-00007
58-00001	58-00002	58-00002	58-00004	58-00127	58-00127
57-00021	57-00031	57-00027	57-00008	57-00127	57-00122
56-00124	56-00169	56-00009	56-00076	56-00125	56-00124
55-00061	55-00064	55-00023	55-00010	55-00126	55-00129
54-00015	54-00046	54-00039	54-00007	54-00125	54-00120
53-00124	53-00147	53-00056	53-00060	53-00124	53-00127
52-00084	52-00117	52-00060	52-00033	52-00112	52-00112
51-00090	51-00101	51-00117	51-00004	51-00124	51-00134
50-00047	50-00051	50-00075	50-00022	50-00126	50-00106
49-00015	49-00047	49-00044	49-00001	49-00124	49-00130
48-00094	48-00132	48-00069	48-00151	48-00125	48-00126
47-00121	47-00121	47-00087	47-00192	47-00125	47-00120
46-00081	46-00036	46-00014	46-00003	46-00120	46-00123
45-00096	45-00037	45-00053	45-00073	45-00124	45-00123
44-00078	44-00126	44-00256	44-00353	44-00127	44-00173
43-00114	43-00195	43-00061	43-00032	43-00124	43-00134
42-00066	42-00077	42-00021	42-00134	42-00124	42-00156
41-00580	41-00046	41-00046	41-00139	41-00129	41-00156
40-00006	40-00047	40-00124	40-00017	40-00125	40-00143
39-00007	39-00071	39-00075	39-00002	39-00123	39-00127
38-00020	38-00024	38-00014	38-00039	38-00119	38-00127
37-00005	37-00001	37-00025	37-00020	37-00127	37-00110
36-00082	36-00126	36-00055	36-00026	36-00126	36-00122
35-00049	35-00044	35-00161	35-00030	35-00123	35-00123
34-00130	34-00125	34-00167	34-00023	34-00122	34-00140
33-00107	33-00109	33-00154	33-00013	33-00127	33-00110
32-00273	32-00311	32-00062	32-00036	32-00124	32-00127
31-00098	31-00072	31-00224	31-00095	31-00129	31-00126
30-00109	30-00123	30-00352	30-00190	30-00132	30-00150
29-00114	29-00137	29-00211	29-00037	29-00127	29-00127
28-00109	28-00124	28-00192	28-00032	28-00125	28-00126
27-00108	27-00120	27-00044	27-00025	27-00124	27-00127
26-00132	26-00146	26-00045	26-00020	26-00122	26-00127
25-00070	25-00036	25-00047	25-00046	25-00126	25-00122
24-00024	24-00039	24-00100	24-00014	24-00123	24-00123
23-00121	23-00156	23-00225	23-00038	23-00124	23-00124
22-00192	22-00126	22-00191	22-00032	22-00119	22-00125
21-00267	21-00306	21-00078	21-00032	21-00121	21-00124
20-00085	20-00107	20-00276	20-00106	20-00123	20-00123
19-00080	19-00090	19-00280	19-00112	19-00123	19-00123
18-00108	18-00126	18-00161	18-00129	18-00123	18-00124
17-00102	17-00116	17-00154	17-00012	17-00121	17-00124
16-00143	16-00157	16-00093	16-00020	16-00124	16-00126
15-00023	15-00024	15-00018	15-00010	15-00126	15-00127
14-00007	14-00006	14-00162	14-00025	14-00123	14-00120
13-00086	13-00123	13-00170	13-00030	13-00123	13-00125
12-00099	12-00072	12-00042	12-00016	12-00124	12-00122
11-00047	11-00057	11-00052	11-00013	11-00124	11-00124
10-00112	10-00147	10-00054	10-00023	10-00123	10-00123
09-00057	09-00056	09-00210	09-00090	09-00125	09-00125
08-00073	08-00038	08-00055	08-00102	08-00122	08-00126
07-00011	07-00040	07-00061	07-00004	07-00125	07-00124
06-00110	06-00134	06-00169	06-00016	06-00123	06-00121
05-00075	05-00112	05-00120	05-00035	05-00123	05-00120
04-00047	04-00093	04-00126	04-00001	04-00122	04-00126
03-00046	03-00091	03-00088	03-00026	03-00121	03-00127
02-00032	02-00045	02-00070	02-00004	02-00122	02-00120
01-00110	01-00116	01-00027	01-00022	01-00121	01-00126
00-00126	00-00180	00-00316	00-00118	00-00126	00-00121
01402600	01415200	01415200	01415200	01320330	01402600
000157900	000157900	000157900	000157900	000157900	000157900

CALCULATED
 PANEL AREA = 10.604 IN.²
 THREE-BAY ELEMENT COMBINED LOADING TEST
 AXIAL COMPRESSION TEST ON TT 802041-3A MOD. TEST DATE 8-15-79
 LOAD TO FAILURE (3/16" STIFFENER OFFSET)

DATA NO.	NOMINAL STRESS KSI	AXIAL LOAD LBS.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD.	CYL. PIN IN	CYL. PIN OUT
AC1	0	0	.100	.100	.100	.100	.500	HYD.		
AC2	0	0	.100	.100	.103	.103	.500	HYD.	CYL. PIN IN	
AC3	2	21,210	.102	.102	.092	.084	.491			
AC4	4	42,420	.106	.106	.092	.084	.463			
AC5	6	63,620	.112	.112	.095	.086	.445			
AC6	8	84,830	.118	.119	.100	.088	.422			
AC7	10	106,000	.125	.127	.107	.095	.400			
AC8	11	116,600	.128	.130	.113	.099	.390			
AC9	12	127,200	.132	.134	.120	.105	.378			
AC10	13	137,900	.135	.137	.130	.116	.365			
AC11	14	148,500	.138	.140	.141	.129	.350			
AC12	15	159,100	.141	.144	.155	.248	.334			
AC13	16	169,700	.144	.146	.180	.277	.316			
AC14	17	180,300	.147	.149	.218	.210	.304			
AC15	18	190,900	.149	.152	.267	.258	.271			
AC16	19	201,500	.151	.154	.337	.319	.240			
AC17	20	212,100	.154	.157	.475	.470	.150			
AC18	20.9	221,600	MAX. LOAD ATTAINED	LOAD DROPPED	LOAD DROPPED	LOAD DROPPED	LOAD DROPPED	OFF BEFORE DATA COULD BE TAKEN		
AC18	0	0	.106	.106	.553	.580	.310	HYD.	CYL. PIN IN	
AC19	0	0	.106	.105	.552	.580	.311	HYD.	CYL. PIN OUT	



Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")
Axial Compression to Failure

B-796

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Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")
 Axial Compression to Failure

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DATA No. ACB 17,200 LBS	DATA No. AC9 17,200 LBS	DATA No. AC10 137,100 LBS	DATA No. AC11 144,500 LBS	DATA No. AC12 157,100 LBS	DATA No. AC13 169,700 LBS	DATA No. AC14 180,300 LBS
83-00027	83-00046	83-00008	83-00001	83-00018	83-00036	83-00057
82-00013	82-00013	82-00016	82-00016	82-00019	82-00016	82-00016
81-00023	81-00023	81-00028	81-00027	81-00027	81-00027	81-00027
80-00026	80-00026	80-00031	80-00031	80-00031	80-00031	80-00031
79-00007	79-00007	79-00002	79-00018	79-00003	79-00011	79-00013
78-00016	78-00017	78-00024	78-00037	78-00024	78-00016	78-00016
77-00018	77-00014	77-00014	77-00007	77-00007	77-00004	77-00014
76-00050	76-00000	76-00009	76-00002	76-00019	76-00032	76-00013
75-00081	75-00009	75-00016	75-00031	75-00019	75-00022	75-00024
74-00032	74-00001	74-00009	74-00004	74-00002	74-00010	74-00022
73-00007	73-00002	73-00006	73-00001	73-00010	73-00019	73-00007
72-00019	72-00014	72-00014	72-00005	72-00030	72-00006	72-00010
71-00054	71-00008	71-00008	71-00007	71-00006	71-00005	71-00019
70-00006	70-00002	70-00004	70-00007	70-00004	70-00017	70-00013
69-00010	69-00013	69-00012	69-00015	69-00017	69-00022	69-00026
68-00057	68-00006	68-00000	68-00003	68-00012	68-00015	68-00017
67-00014	67-00022	67-00022	67-00018	67-00009	67-00019	67-00009
66-00014	66-00013	66-00014	66-00013	66-00002	66-00000	66-00014
65-00015	65-00016	65-00016	65-00016	65-00016	65-00016	65-00016
64-00015	64-00015	64-00015	64-00017	64-00020	64-00020	64-00020
63-00026	63-00026	63-00026	63-00030	63-00030	63-00030	63-00031
62-00027	62-00026	62-00026	62-00032	62-00032	62-00032	62-00032
61-00005	61-00018	61-00041	61-00044	61-00041	61-00044	61-00044
60-01157	60-01203	60-01399	60-01474	60-01574	60-01682	60-01789
59-00554	59-00554	59-00554	59-00554	59-00554	59-00554	59-00554
58-00001	58-00002	58-00001	58-00001	58-00001	58-00001	58-00001
57-00017	57-01018	57-01116	57-01212	57-01310	57-01409	57-01506
56-00621	56-00691	56-00705	56-00998	56-01087	56-01208	56-01344
55-00703	55-00746	55-00774	55-00772	55-00836	55-00921	55-01027
54-00098	54-01049	54-01121	54-01235	54-01341	54-01445	54-01560
53-00791	53-00946	53-01044	53-00807	53-00827	53-00844	53-00861
52-00043	52-00020	52-00004	52-00082	52-01120	52-01204	52-01293
51-00082	51-00040	51-01004	51-01149	51-00997	51-00915	51-00713
50-01241	50-01327	50-01377	50-01421	50-01452	50-01459	50-01466
49-00081	49-01070	49-01157	49-01241	49-01324	49-01430	49-01536
48-00055	48-00064	48-00077	48-00094	48-01007	48-01159	48-01274
47-00049	47-00070	47-00086	47-00094	47-00155	47-00236	47-00313
46-00040	46-01036	46-01136	46-01236	46-01347	46-01463	46-01582
45-00554	45-00554	45-00554	45-00554	45-00554	45-00554	45-00554
44-00070	44-00015	44-00020	44-01007	44-01003	44-01090	44-01165
43-00049	43-01041	43-01141	43-01250	43-01345	43-01419	43-01492
42-01042	42-01173	42-01211	42-02219	42-02306	42-02366	42-02404
41-01316	41-01403	41-01475	41-01511	41-01510	41-01510	41-01510
40-00024	40-00080	40-00034	40-00034	40-00034	40-00034	40-00034
39-00013	39-00017	39-00033	39-00036	39-00036	39-00036	39-00036
38-00089	38-00076	38-00076	38-00065	38-00029	38-00029	38-00029
37-01215	37-01354	37-01425	37-01764	37-02340	37-02713	37-02937
36-00036	36-00078	36-01106	36-01128	36-01336	36-01535	36-01719
35-00214	35-00243	35-00316	35-00511	35-00511	35-00535	35-00569
34-00241	34-00263	34-00295	34-00354	34-00354	34-00354	34-00354
33-00282	33-00323	33-00377	33-00404	33-00404	33-00404	33-00404
32-00093	32-00095	32-01103	32-01177	32-01177	32-01177	32-01177
31-01175	31-01247	31-01295	31-01295	31-00647	31-00647	31-00647
30-02184	30-02465	30-02465	30-03270	30-03270	30-03270	30-03270
29-00019	29-00047	29-00117	29-00315	29-00315	29-00315	29-00315
28-00613	28-00672	28-00723	28-00737	28-00664	28-00662	28-00662
27-01044	27-01118	27-01199	27-01670	27-02314	27-02700	27-02766
26-00092	26-00021	26-00044	26-00079	26-00333	26-00372	26-00406
25-00017	25-00033	25-00033	25-00269	25-00704	25-00888	25-01015
24-00086	24-00074	24-00064	24-01244	24-01669	24-02206	24-02465
23-00053	23-00081	23-00145	23-00319	23-00330	23-00346	23-00346
22-00521	22-00571	22-00616	22-00636	22-00643	22-00613	22-00613
21-00029	21-01014	21-01145	21-01219	21-01219	21-01231	21-01231
20-01898	20-01770	20-01999	20-02242	20-02704	20-03279	20-03910
19-01610	19-01731	19-01823	19-01819	19-01820	19-01843	19-01843
18-00292	18-00275	18-00345	18-00344	18-00367	18-00370	18-00370
17-00249	17-00280	17-00345	17-00410	17-00409	17-00409	17-00409
16-00078	16-00027	16-00020	16-00080	16-00040	16-00033	16-00021
15-01093	15-01162	15-01296	15-01519	15-02193	15-02660	15-03001
14-00723	14-00045	14-00110	14-01206	14-01799	14-02277	14-02703
13-00042	13-00220	13-00081	13-00081	13-00083	13-00110	13-00142
12-00057	12-00040	12-00027	12-00031	12-00033	12-00044	12-00050
11-00060	11-00041	11-00036	11-00014	11-00010	11-00010	11-00010
10-00078	10-01065	10-01120	10-01201	10-01244	10-01244	10-01244
9-01367	9-01474	9-01569	9-01617	9-01606	9-01606	9-01606
8-01695	8-01677	8-02009	8-02352	8-02792	8-03245	8-03700
7-01040	7-01149	7-01241	7-01336	7-01437	7-01536	7-01636
6-00633	6-00664	6-00661	6-00659	6-00659	6-00659	6-00659
5-00040	5-00040	5-00040	5-00040	5-00040	5-00040	5-00040
4-00098	4-00076	4-00046	4-00032	4-00016	4-00009	4-00002
3-01542	3-01742	3-02167	3-02162	3-02162	3-02162	3-02162
2-00099	2-01099	2-01169	2-01262	2-01262	2-01262	2-01262
1-00560	1-00621	1-00696	1-00696	1-00696	1-00696	1-00696
0-00716	0-00776	0-00812	0-00830	0-00830	0-00830	0-00830
01322000	01322100	01322200	01322300	01322400	01322500	01322600
008157900	008157900	008157900	008157900	008157900	008157900	008157900

TERO73

Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")
Axial Compression to Failure

Page 3 of 3

DATA No. AC15 190.900 LBS	DATA No. AC16 201.500 LBS	DATA No. AC17 212.100 LBS	DATA No. AC18 212.200 LBS HYD. CYL. PIN IN ZERO LOAD	DATA No. AC19 212.200 LBS HYD. CYL. PIN OUT ZERO LOAD	P/E TEST R CAL	POST TEST R CALS
83-00177	83-00200	83-00236	83-00115	83-00116	83-00072	83-00073
82-00016	82-00016	82-00023	82-00022	82-00023	82-00071	82-00072
81-00027	81-00027	81-00034	81-00046	81-00026	81-00015	81-00020
80-00040	80-00040	80-00053	80-00064	80-00041	80-00024	80-00025
79-00158	79-00186	79-00226	79-00108	79-00109	79-00118	79-00178
78-00212	78-00235	78-00280	78-00194	78-00193	78-00062	78-00062
77-00143	77-00171	77-00242	77-00111	77-00110	77-00332	77-00333
76-00206	76-00232	76-00297	76-00090	76-00089	76-00147	76-00147
75-00283	75-00344	75-00422	75-00053	75-00051	75-00095	75-00095
74-00152	74-00195	74-00294	74-00034	74-00031	74-00074	74-00075
73-00105	73-00141	73-00237	73-00026	73-00023	73-00049	73-00040
72-00083	72-00095	72-00163	72-00044	72-00044	72-00099	72-00099
71-00123	71-00149	71-00252	71-00021	71-00021	71-00063	71-00063
70-00167	70-00210	70-00335	70-00037	70-00037	70-00174	70-00174
69-00024	69-00045	69-00085	69-00012	69-00012	69-00049	69-00049
68-00204	68-00241	68-00401	68-00046	68-00046	68-00040	68-00040
67-00009	67-00017	67-00018	67-00027	67-00024	67-00091	67-00091
66-00136	66-00164	66-00234	66-00025	66-00025	66-00054	66-00055
65-00115	65-00156	65-00229	65-00025	65-00024	65-00047	65-00047
64-00020	64-00021	64-00027	64-00037	64-00036	64-00237	64-00237
63-00030	63-00031	63-00036	63-00037	63-00037	63-00090	63-00090
62-00032	62-00032	62-00040	62-00021	62-00021	62-00064	62-00064
61-00151	61-00157	61-00167	61-00067	61-00067	61-00037	61-00037
60-01195	60-02001	60-02104	60-00001	60-00001	60-01792	60-01790
59-00531	59-00532	59-00532	59-00526	59-00526	59-00607	59-00598
58-00001	58-00002	58-00002	58-00002	58-00002	58-01430	58-01431
57-01623	57-01764	57-02011	57-00313	57-00312	57-01827	57-01827
56-04057	56-04345	56-05132	56-01741	56-01741	56-01826	56-01826
55-00088	55-00350	55-00813	55-00027	55-00025	55-01427	55-01427
54-01694	54-01866	54-02178	54-00067	54-00066	54-01826	54-01826
53-00334	53-00331	53-01048	53-01675	53-01674	53-01824	53-01824
52-01999	52-01976	52-01976	52-00003	52-00002	52-01827	52-01827
51-00509	51-00040	51-00713	51-00003	51-00003	51-01832	51-01832
50-02300	50-02328	50-03103	50-01007	50-01002	50-01828	50-01828
49-01664	49-01625	49-02154	49-00002	49-00000	49-01827	49-01827
48-01740	48-01624	48-00994	48-00039	48-00039	48-01824	48-01824
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45-00007	45-00235	45-00408	45-00003	45-00003	45-01821	45-01821
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43-02138	43-02545	43-03689	43-03664	43-03662	43-01825	43-01825
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39-00527	39-00264	39-00724	39-01582	39-01581	39-01826	39-01826
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37-03104	37-03139	37-02965	37-01567	37-01584	37-01829	37-01829
36-03095	36-03485	36-04033	36-03180	36-03176	36-01828	36-01828
35-01337	35-01533	35-01924	35-02781	35-02777	35-01821	35-01821
34-00924	34-01438	34-03025	34-03242	34-03240	34-01824	34-01824
33-01207	33-01191	33-00837	33-00663	33-00659	33-01827	33-01827
32-02013	32-02360	32-03396	32-02600	32-02604	32-01826	32-01826
31-00241	31-00024	31-00498	31-01100	31-01094	31-01822	31-01822
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29-01180	29-01112	29-00727	29-00292	29-00292	29-01825	29-01825
28-01644	28-02315	28-04559	28-01110	28-01101	28-01825	28-01825
27-03029	27-03518	27-05136	27-05537	27-05546	27-01825	27-01825
26-00984	26-01449	26-02623	26-02410	26-02409	26-01825	26-01825
25-01080	25-01051	25-00702	25-00738	25-00738	25-01825	25-01825
24-02697	24-02944	24-03320	24-04242	24-04239	24-01821	24-01821
23-00998	23-00885	23-00279	23-00766	23-00766	23-01820	23-01820
22-01623	22-02341	22-05048	22-06736	22-06726	22-01825	22-01825
21-02092	21-02497	21-03629	21-02646	21-02641	21-01823	21-01823
20-04694	20-05407	20-05450	20-00408	20-00406	20-01816	20-01816
19-00726	19-00371	19-00072	19-01618	19-01614	19-01819	19-01819
18-00944	18-00949	18-02449	18-02691	18-02685	18-01820	18-01820
17-01470	17-01550	17-01208	17-01677	17-01674	17-01824	17-01824
16-00554	16-00068	16-01444	16-01607	16-01606	16-01829	16-01829
15-03314	15-03411	15-03276	15-01009	15-01002	15-01825	15-01825
14-03193	14-03680	14-04286	14-03469	14-03464	14-01823	14-01823
13-01492	13-01723	13-02113	13-02966	13-02962	13-01820	13-01820
12-00938	12-01757	12-05072	12-09952	12-09952	12-01822	12-01822
11-00086	11-00246	11-01104	11-01737	11-01736	11-01822	11-01822
10-02217	10-02761	10-04441	10-04477	10-04469	10-01822	10-01822
99-00593	99-00033	99-01871	99-02741	99-02697	99-01818	99-01818
98-04406	98-04084	98-05034	98-00048	98-00046	98-01814	98-01814
97-01494	97-02184	97-03007	97-02164	97-02161	97-01828	97-01828
96-00845	96-00736	96-01689	96-02239	96-02236	96-01821	96-01821
95-01738	95-01784	95-01947	95-00100	95-00100	95-01841	95-01841
94-00182	94-00287	94-00604	94-01187	94-01186	94-01829	94-01829
93-03161	93-03654	93-04234	93-02444	93-02439	93-01846	93-01846
92-01780	92-01917	92-02312	92-00934	92-00934	92-01829	92-01829
91-02091	91-02079	91-01846	91-00336	91-00336	91-01846	91-01846
90-00187	90-00034	90-00703	90-03369	90-03370	90-01829	90-01829
89-00920	89-03310	89-07140	89-02340	89-02340	89-06900	89-06900
88-01900	88-01900	88-01900	88-01900	88-01900	88-01900	88-01900

APPENDIX C

ALTERNATE STIFFENER CONFIGURATIONS

APPENDIX C

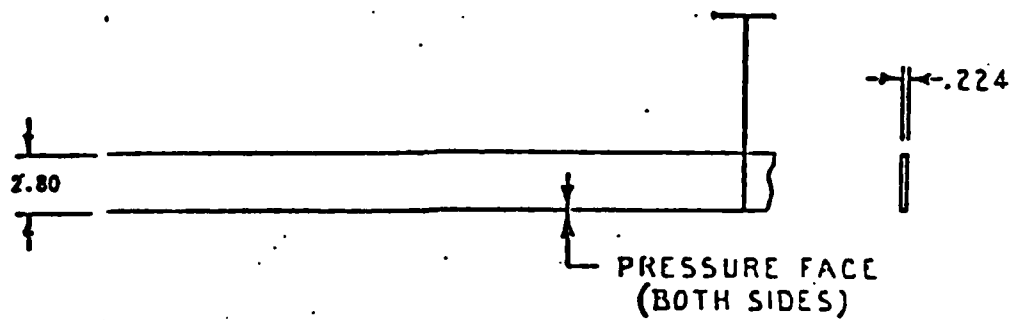
ALTERNATE STIFFENER CONFIGURATIONS

Design sketches listed in Figure C-1 for typical stiffener configurations are presented in Figures C-2 through C-5.

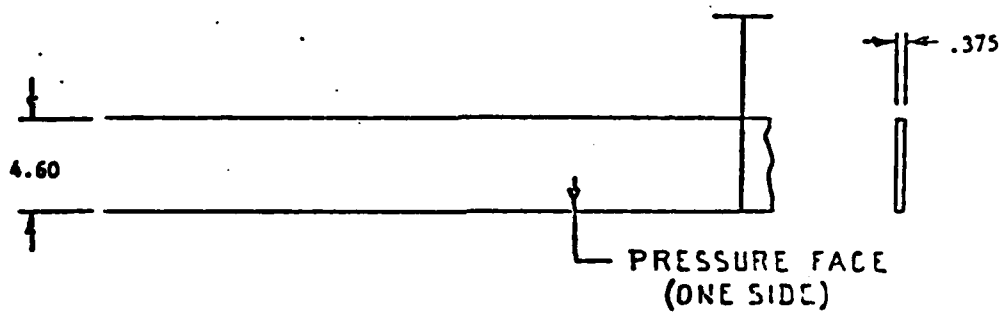
Baseline Stiffener Dash Number*	Straight Flat Bar Stringer	Light Weight Haunched Flat Bar Stringer	Rigid Haunched Flat Bar Stringer	Haunched Tee Stringer
201	C-2	---	---	C-5
209	C-2	C-3	C-4	C-5
213	C-2	C-3	C-4	C-5

*Drawing Number LL101004, Extrusions-Structural

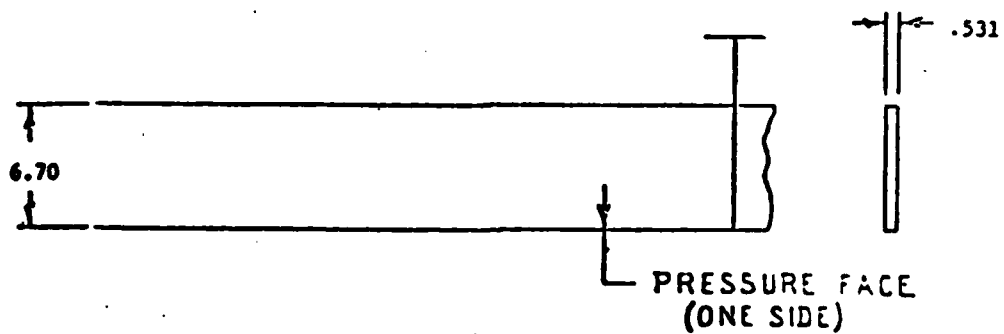
Figure C-1. Stiffener Configuration Matrix



REPLACES -201 TEE

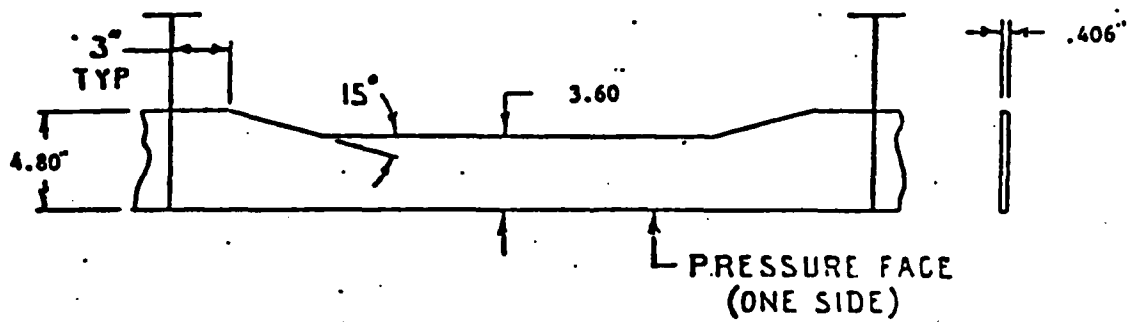


REPLACES -209 TEE

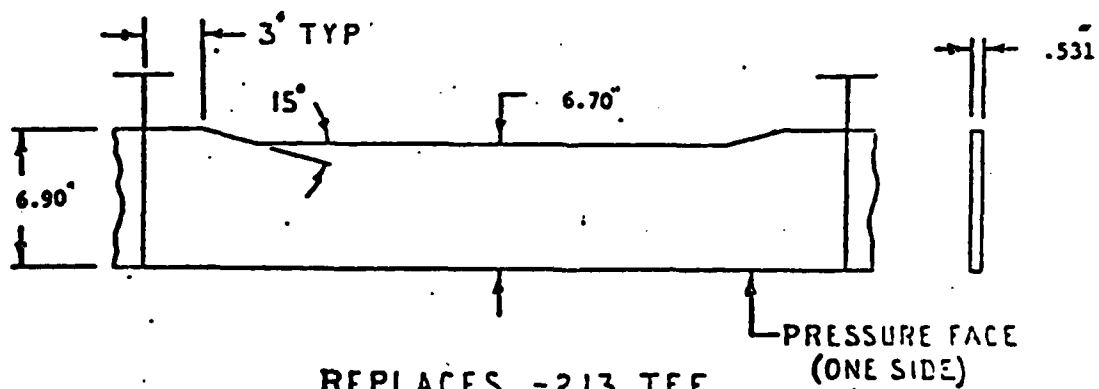


REPLACES -213 TEE

Figure C-2. Straight Flat Bar Stringer.

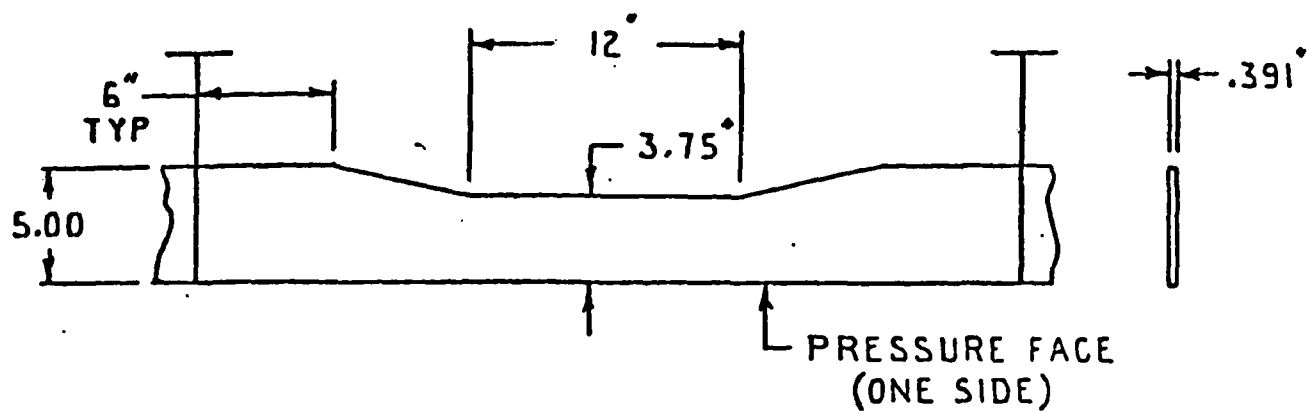


REPLACES -209 TEE

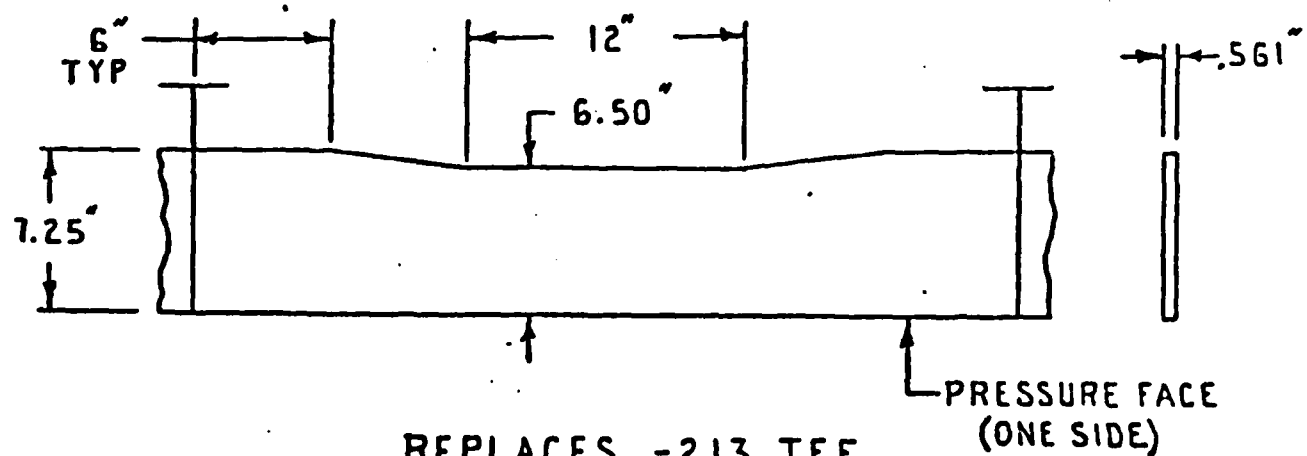


REPLACES -213 TEE

Figure C-3. Light Weight Haunched Flat Bar Stringer.



REPLACES -209 TEE



REPLACES -213 TEE

Figure C-4. Rigid Haunched Flat Bar Stringer.

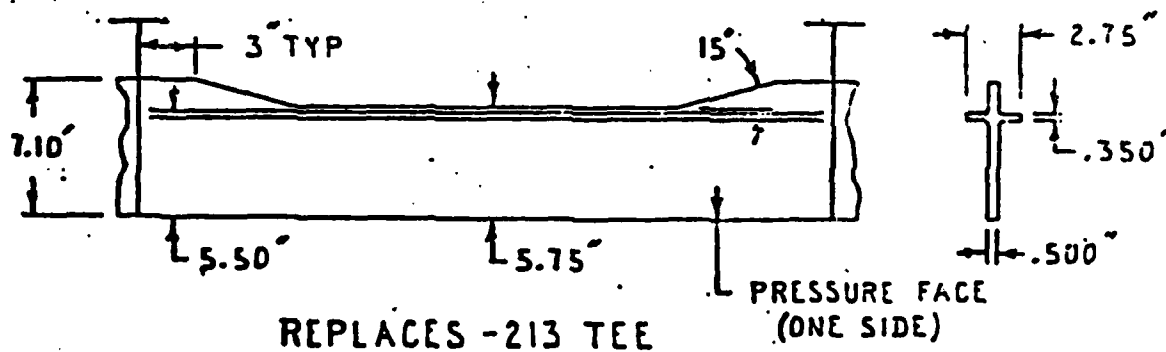
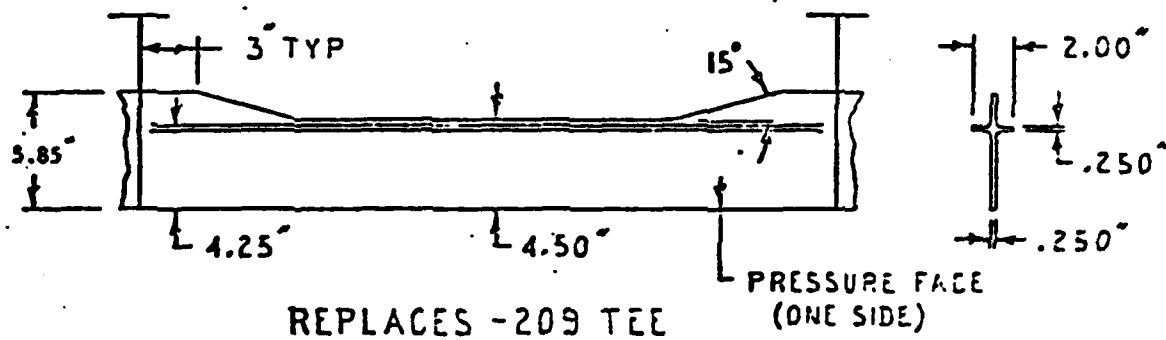
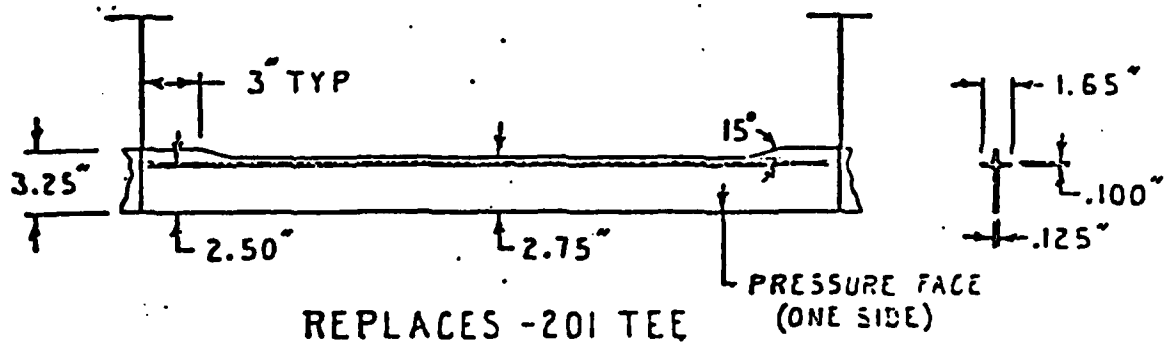


Figure C-5. Haunched Tee Stringer.

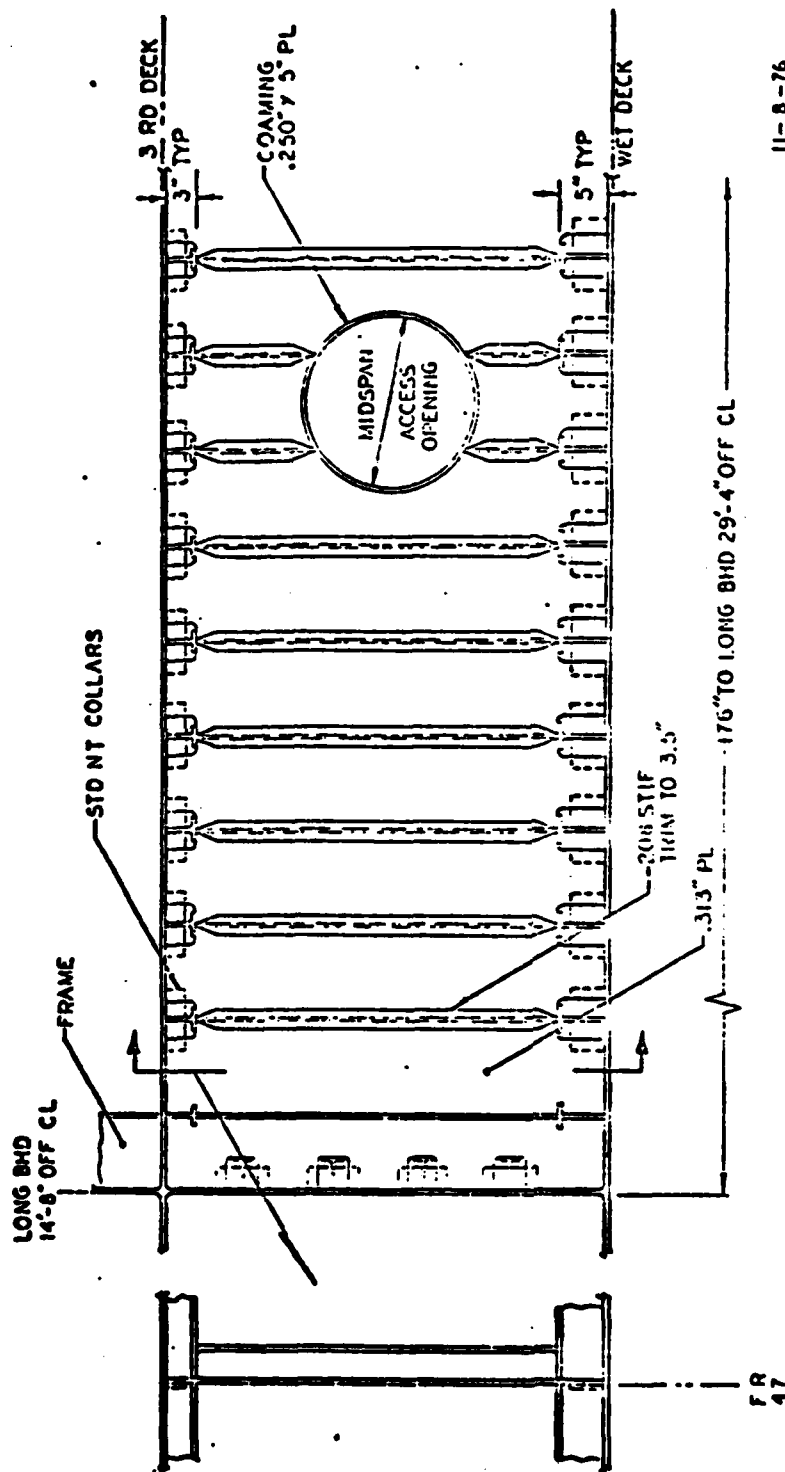
APPENDIX D

ALTERNATE INNER BOTTOM FLOOR CONFIGURATIONS

ALTERNATE INNER BOTTOM FLOOR CONFIGURATIONS

Included in this Appendix are typical design sketches of all alternate frame configurations included in this study. Scantlings are presented for wet deck hydrodynamic pressures of 30 and 60 psi.

<u>Drawing</u>	<u>Page</u>
Inner Bottom Girder, Const. Web without Trans. Flat Bars (30 psi)	D-2
Inner Bottom Girder, Const. Web without Trans. Flat Bars (60 psi)	D-3
Inner Bottom Girder, Stepped Web without Trans. Flat Bars (30 psi)	D-4
Inner Bottom Girder, Stepped Web without Trans. Flat Bars (60 psi)	D-5
Inner Bottom Girder, Const. Web with Trans. Flat Bars (30 psi) . .	D-6
Inner Bottom Girder, Const. Web with Trans. Flat Bars (60 psi) . .	D-7
Inner Bottom Girder, Stepped Web with Trans. Flat Bars (30 psi). .	D-8
Inner Bottom Girder, Stepped Web with Trans. Flat Bars (60 psi). .	D-9
Round Tube Concept, Inner Bottom Truss (30 psi)	D-10
Round Tube Concept, Inner Bottom Truss (60 psi)	D-11

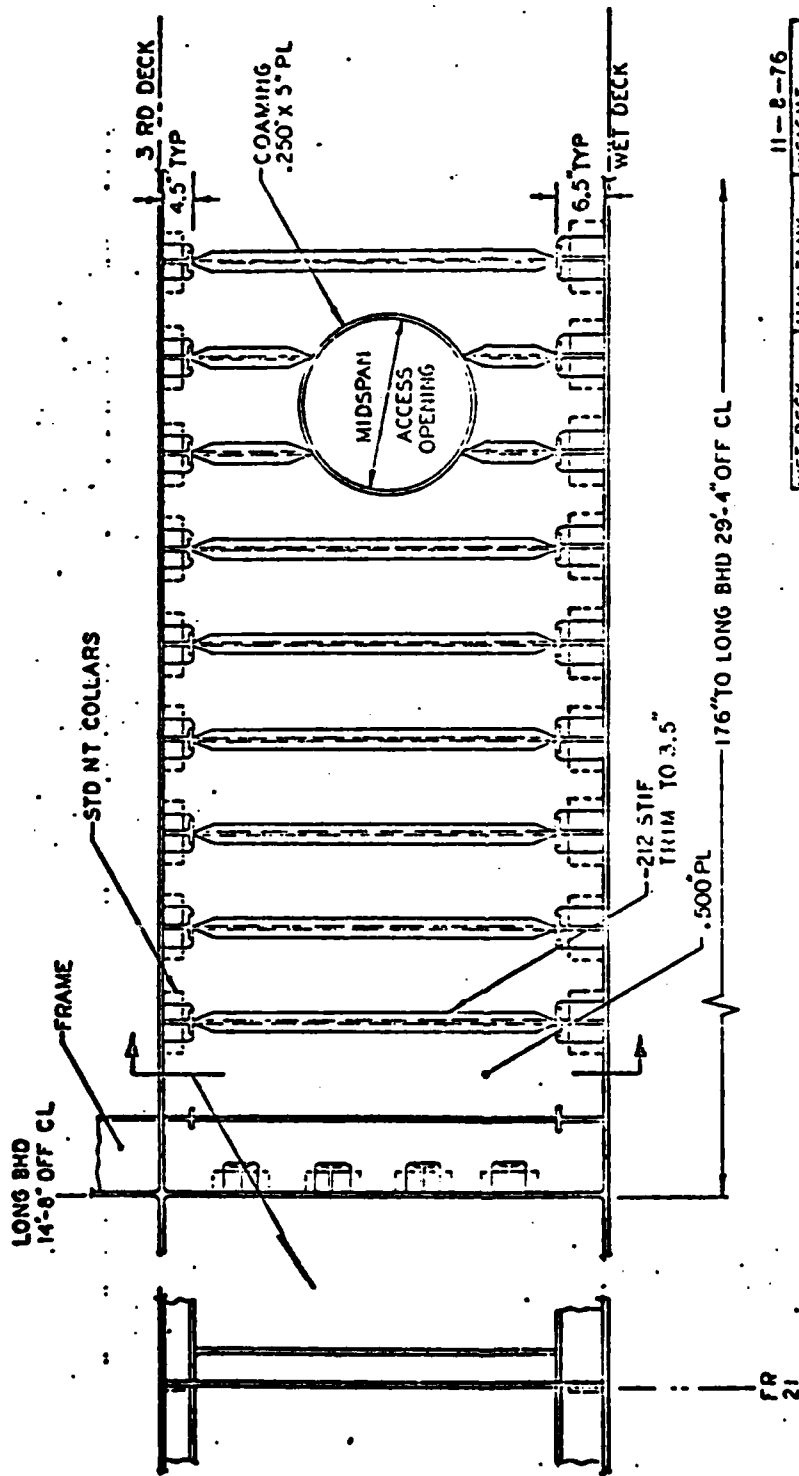


11-8-76

WET DECK HYDRODYNAMIC PRESSURE (PSI)	MAX TANK PRESSURE (PSI)	WEIGHT (LBS/DAY) *
30	24.7	312

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE: SKES FRAME 47

Figure 1-2. Inner Bottom Girder Const. Web without Trans. Flat Bars (30 psi).



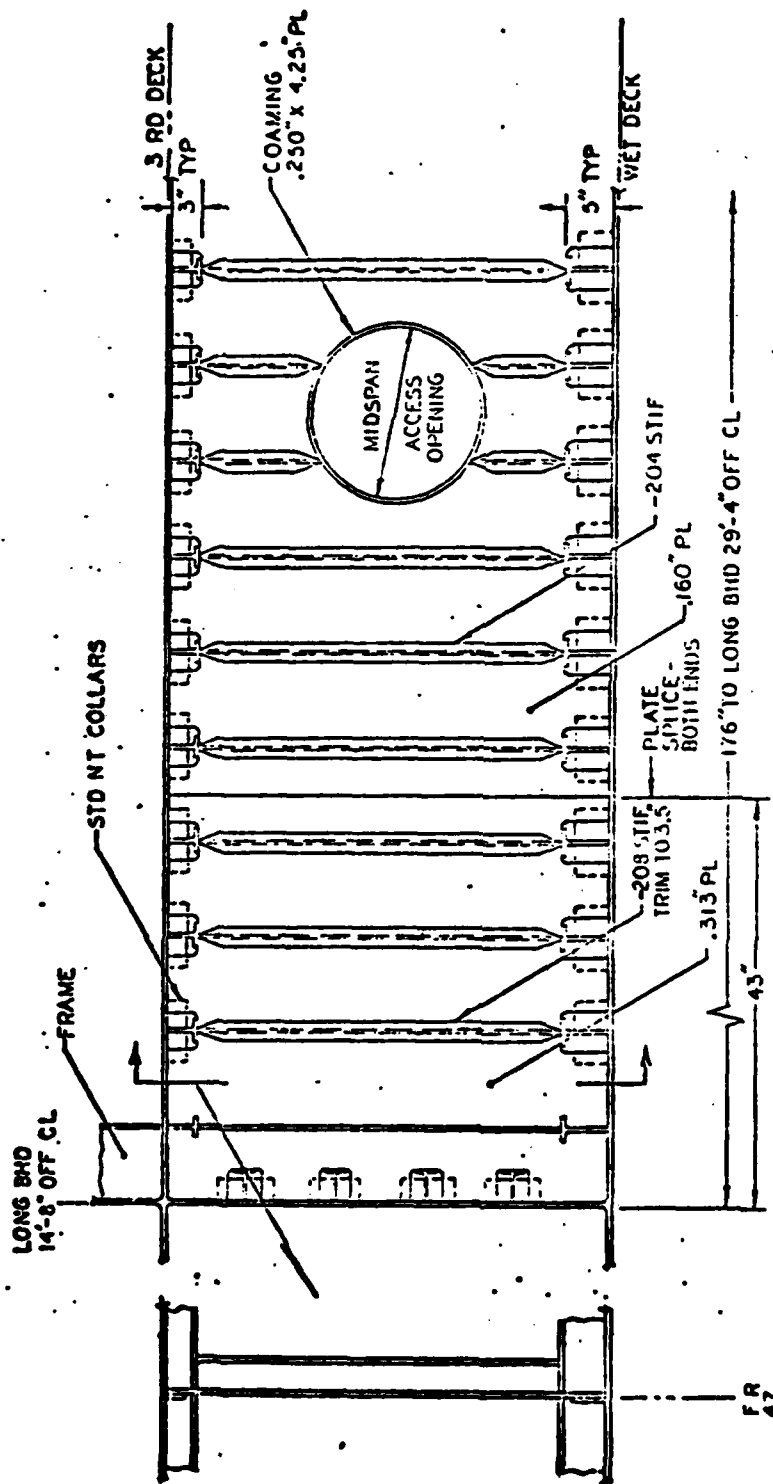
11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/9AV)
PRESSURE (PSI)	(PSI)	X
60	24.7	497

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE: 3KSES FRAME 21

INNER BOTTOM GIRDER
CONST WEB WITHOUT TRANSVERSE FLAT BARS

Figure 10-3. Inner Bottom Girder, Const. Web without Trans. Flat Bars (60 psi).



11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC PRESSURE (PSI)	24.7	(LBS/BAY) *
30		236

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE: SKES FRAME 47

INNER BOTTOM GIRDER
STEPPED WEB WITHOUT TRANSVERSE FLAT BARS

Figure 1-4. Inner Bottom Girder, Stepped Web without Trans. Flat Bars (30 psi).

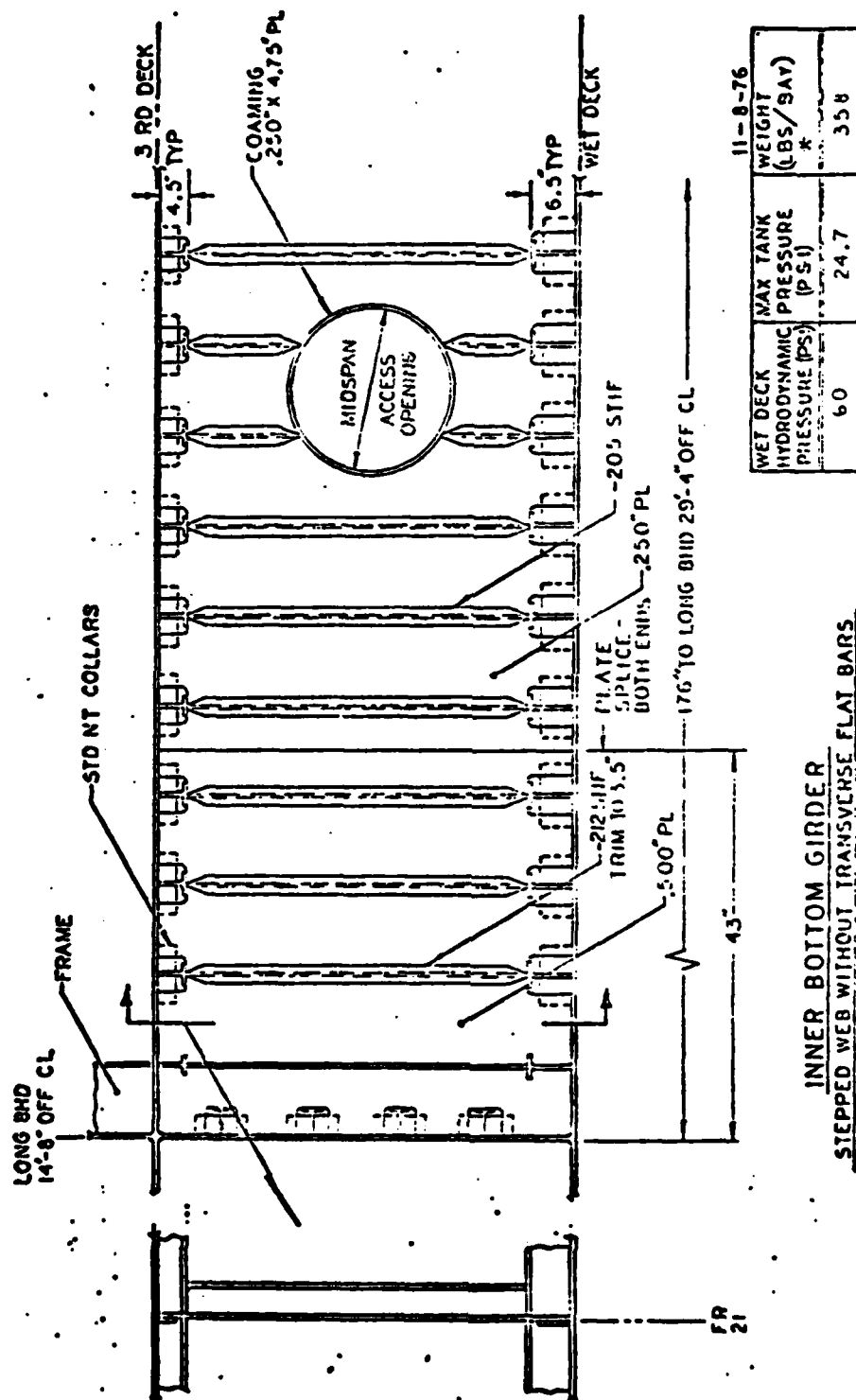
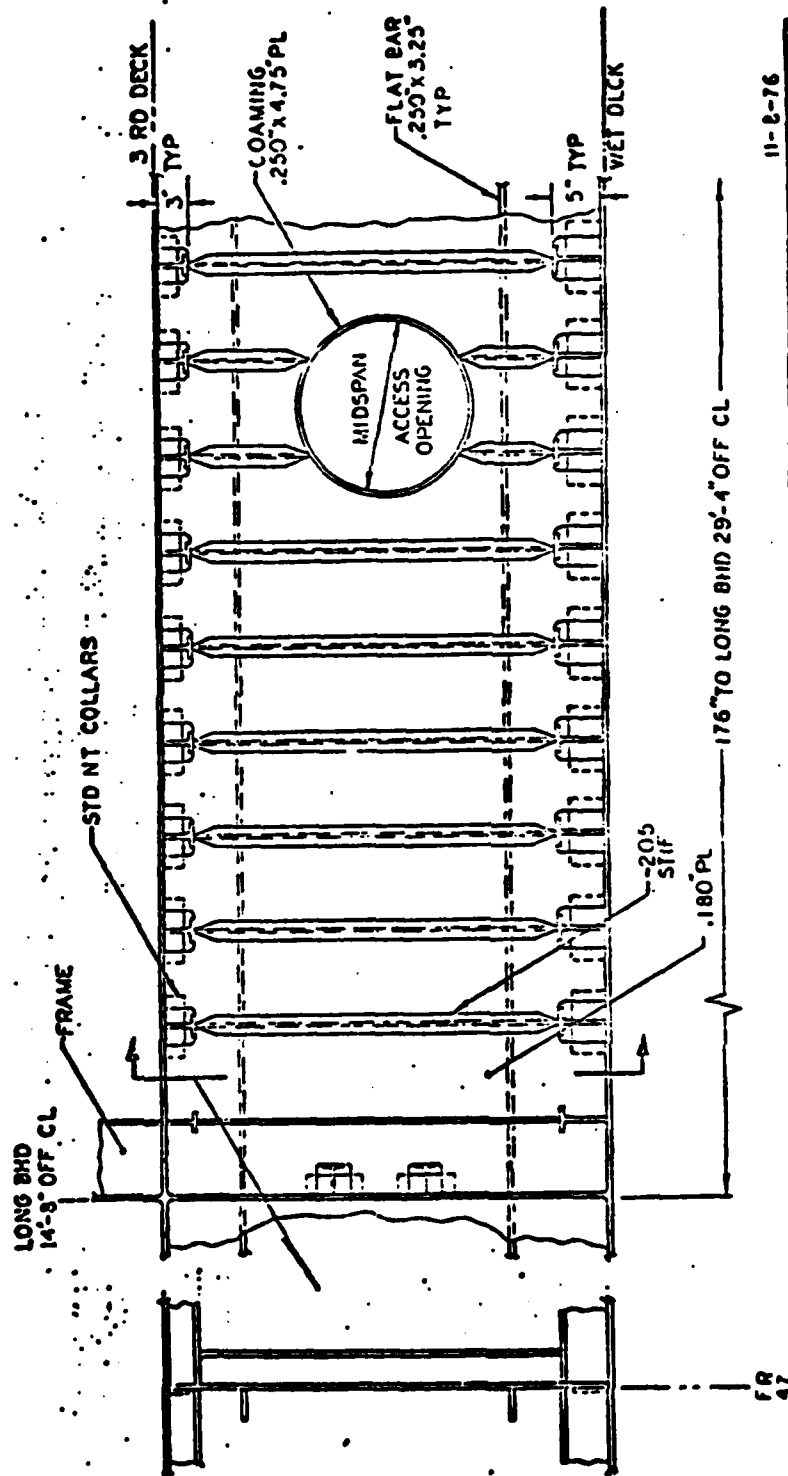


Figure 1.-5. Inner Bottom Girder, Stepped Web without Trans. Flat Bars (60 psi).



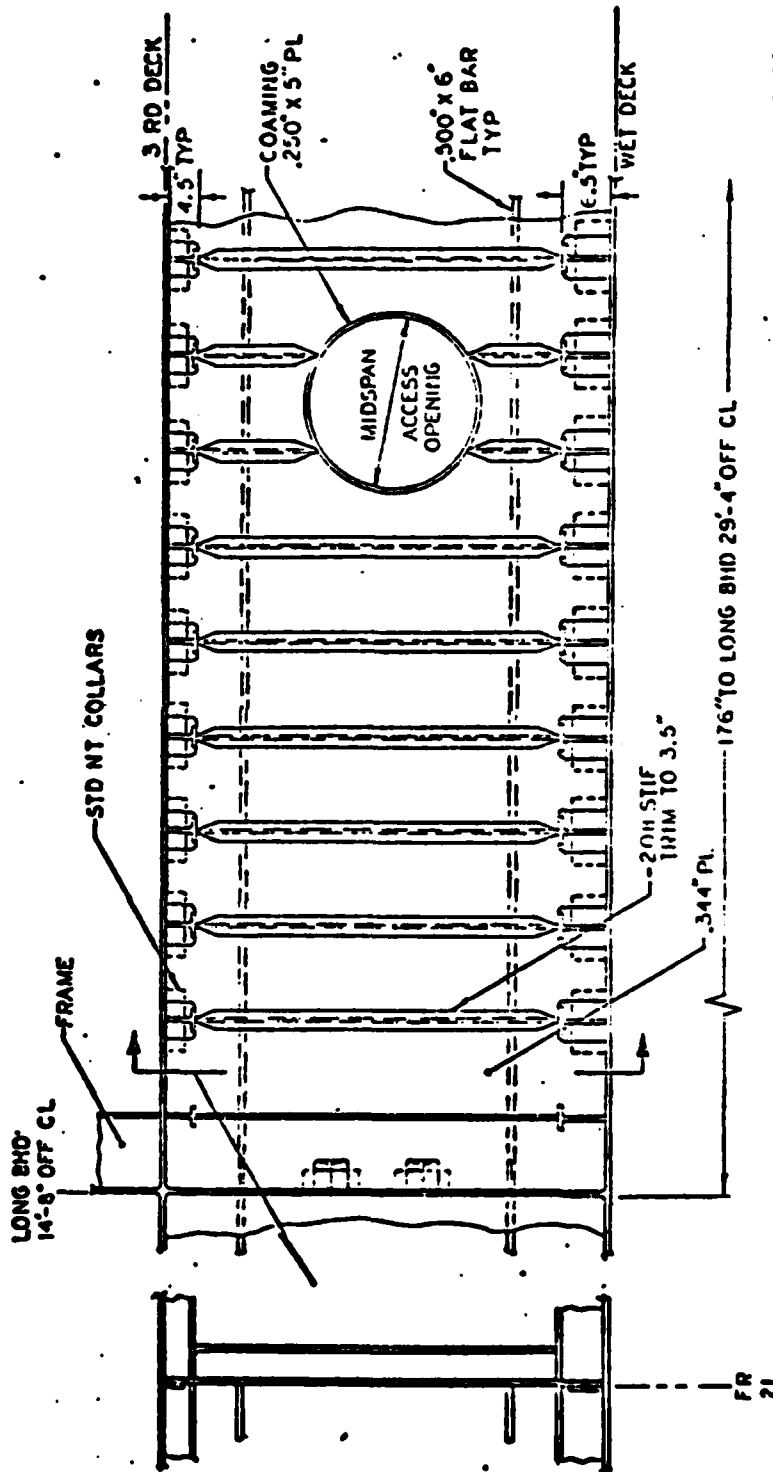
11-2-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/BAY)
PRESSURE (PSI)	(PSI)	*
30	24.7	215

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE: 3 KSES FRAME 47

INNER BOTTOM GIRDER CONST WEB WITH TRANSVERSE FLAT BARS

Figure D-6. Inner Bottom Girder, Web with Trans. Flat Bars (30 psi).



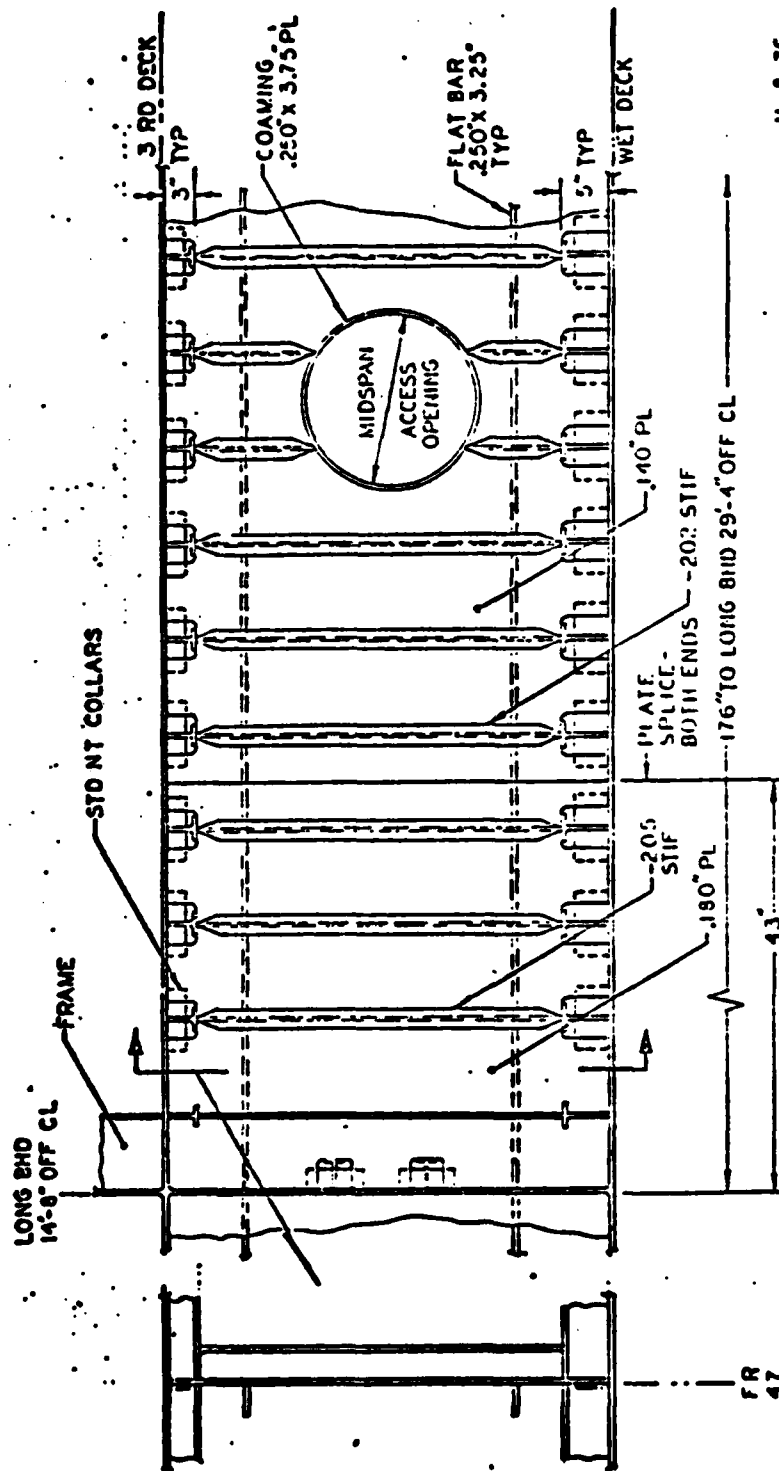
11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/BAY)
PRESSURE (PSI)	(PSI)	%
60	24.7	4.24

EXCLUDING DECK PLATES & STRINGERS
REFERENCE: SKES FRAME 21

INNER BOTTOM GIRDER
CONST WEB WITH TRANSVERSE FLAT BARS

Figure D-7. Inner Bottom Girder, Const. Web with Trans. Flat Bars (60 psi).



11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/BAY)
PRESSURE (PSI)	(PSI)	*
30	24.7	191

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE: KNSSES FRAME 47

INNER BOTTOM GIRDER
STEPPED WEB WITH TRANSVERSE FLAT BARS

Figure D-8. Inner Bottom Girder, Stepped Web with Trans. Flat Bars (30 psi).

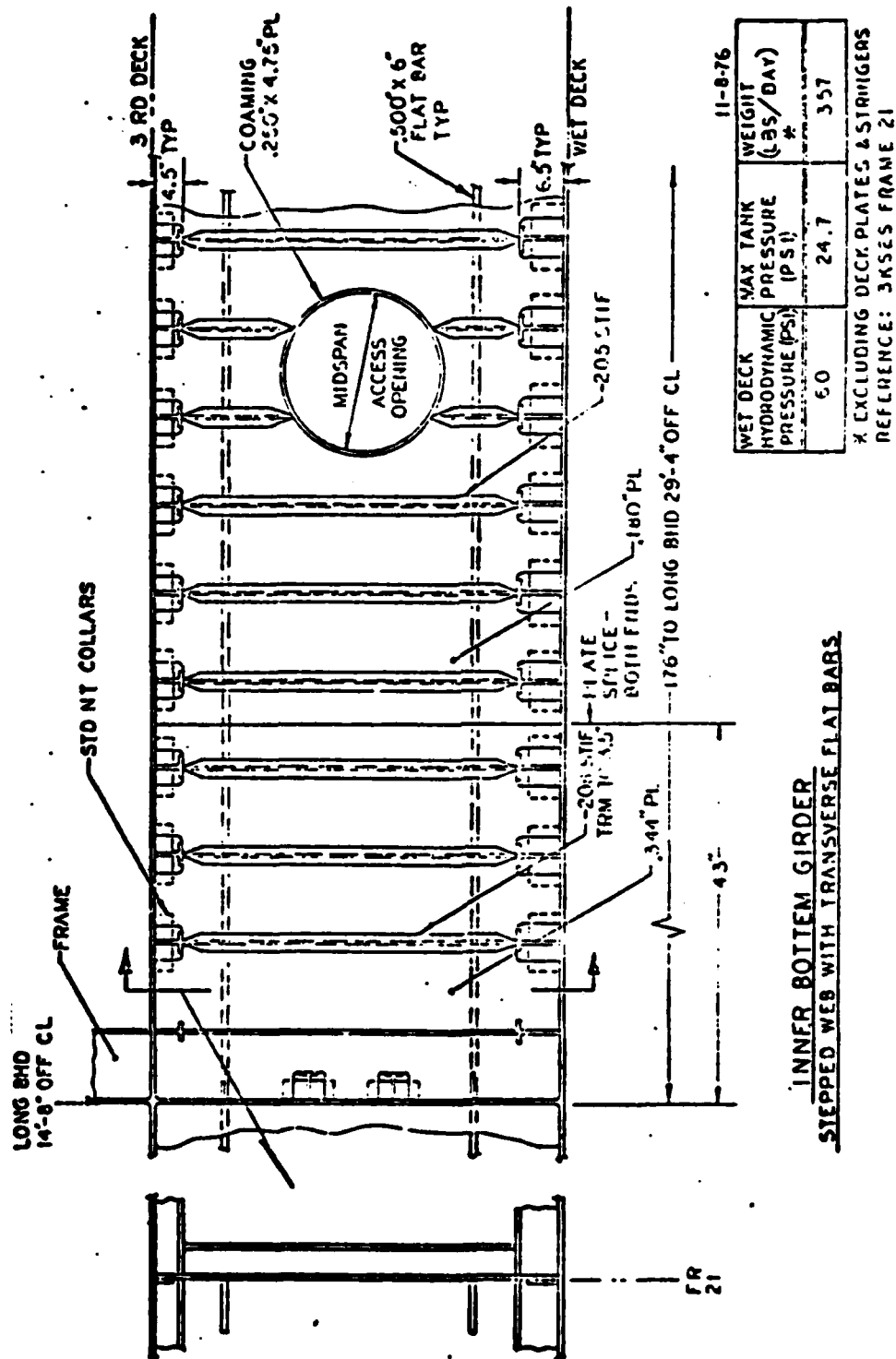
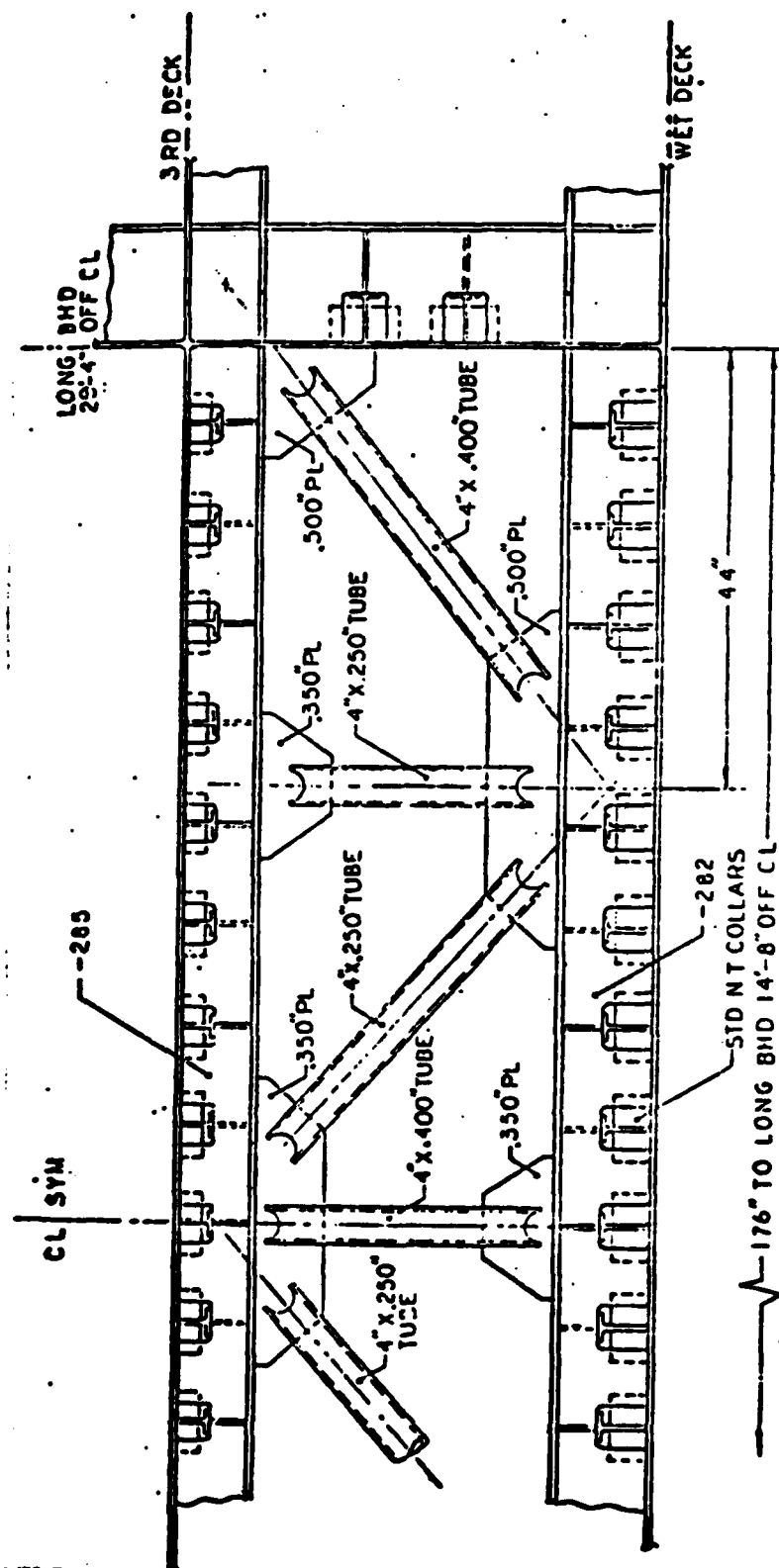


Figure D-9. Inner Bottom Girder, Stepped Web with Trans. Flat Bars (60 psi).



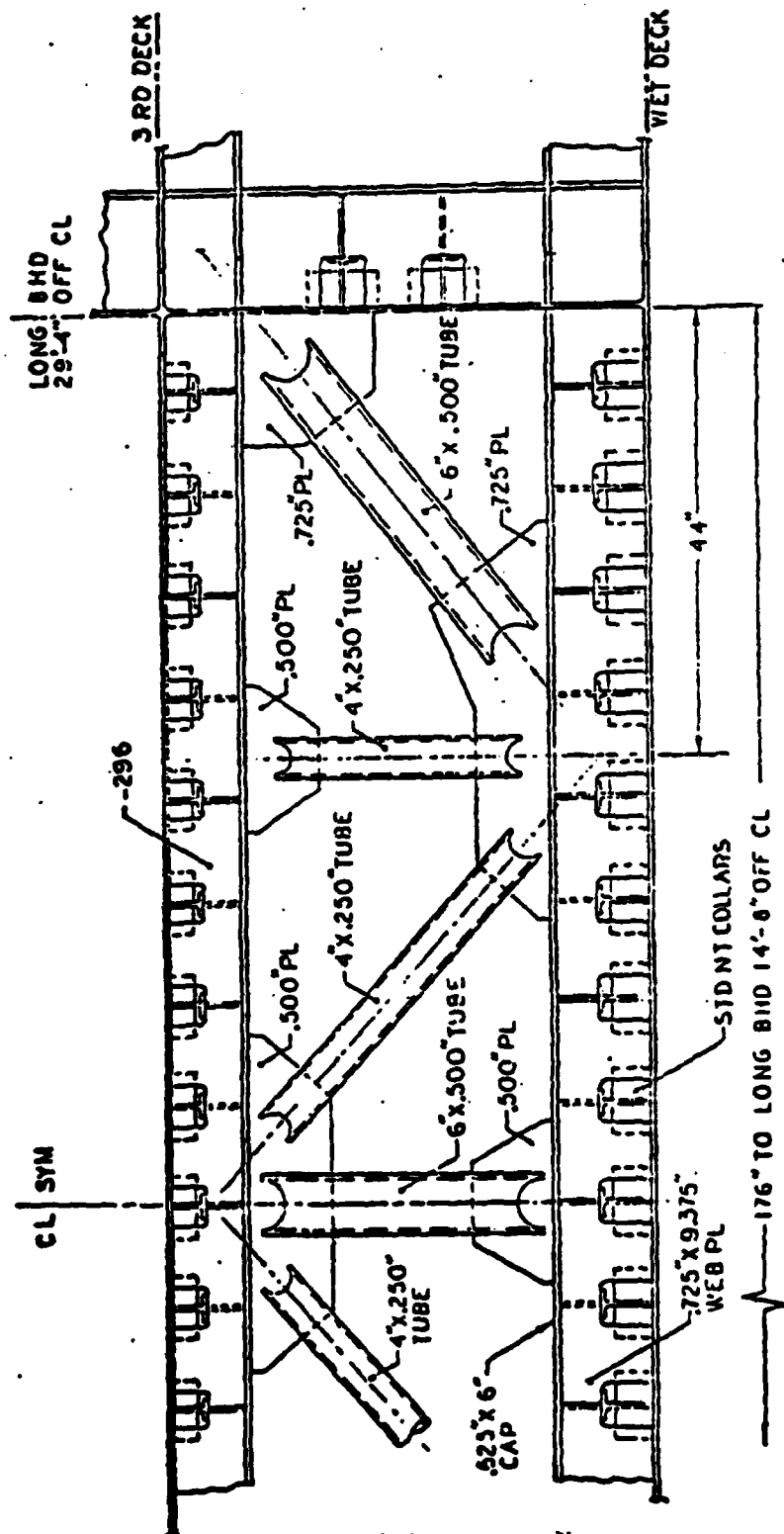
K.D. NICHOLS 11-3-76

WET DECK HYDRODYNAMIC PRESSURE (PSI)	MAX TANK PRESSURE (PSI)	APPROX WT (LBS / 9AY) #
30	24.7	345

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE: 3KSES FRAME 47

ROUND TUBE CONCEPT
INNER BOTTOM TRUSS

Figure D-10. Round Tube Concept, Inner Bottom Truss (30 psi).



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WET DECK HYDRODYNAMIC PRESSURE (PSI)	MAX TANK PRESSURE (PSI)	APPROX WT (LBS/BAY) *
60	24.7	578

* EXCLUDING DECK PLATES & STRINGERS
REFERENCE 3KSES FRAME 21

ROUND TUBE CONCEPT
INNER BOTTOM TRUSS

Figure D-11. Round Tube Concept, Inner Bottom Truss (60 psi).