CONTRACT NAS1-98108
(Task Orders)

Numerous Task Orders have been issued under Contract NAS1-98108. This file contains a sampling of Task Orders offering a good representation of work requested under this contract.

1. REQUESTER: J. CORLISS
2. TTR NO.: S12C-003-98
3. DATE: 9/2/98
4. CNS NO.: 99-622

NTF TASK/TEST REQUEST

5. TASK/TEST: change relief valve setting on fan lube oil system main pump

6. BASIC DESCRIPTION/JUSTIFICATION:
The fan bearing lube oil system's pump has an integral relief valve which was set to open at 72 psid when the pump was installed. This setting is too low because the pump normally operates at differential pressures up to 70 psid. Reset relief valve to open at 90 psid and document as described below.

7. REFERENCES/ATTACHMENTS:

8. SCHEDULE: 9/15/98

9. SPECIAL INSTRUCTIONS: After setting relief valve to 90 psid: ① tag relief valve with 90 psid setting ② add setting value to fan lube P+ID drawing [redacted] MAIN

DOC. IMPACT

DOC.	YES	NO
PROCEDURES MIP	☒	☐
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☐
SOFTWARE	☐	☒
AIP-29	☐	☒

OTHERS

TEST NO.

FSH TRACKING

☑	CNS ISSUED 9/9/98
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): CALSPAN – PLANT SYSTEMS, DOCUMENTATION
McHATTON/CORLISS – MECH. REVIEW
POPERNACK – SAFETY
KENNEDY – CM

12. FSH REVIEW: [signature] DATE: 9/4/98

13. NTF MANAGER APPROVAL: [signature] DATE: 9/8/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, BYLES, WHITLEY, WEIGHT, McHATTON, T. SMITH, CORLISS, KENNEDY, PARASKA

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	T. G. POPERNACK JR	45163	9-2-98

FACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE:

CHANGE RELIEF VALVE SETTING ON FAN LUBE OIL SYSTEM MAIN PUMP

REF TTR S12C-003-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
LD-997239	P	FAN BEARING LUBE SYSTEM P+I DIAGRAM	✓	

9/9/98

9/28/98

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
D W Beasley FOR AHP	9/25/98	John W Nicely ACT	9-4-98
FACILITIES CONFIGURATION COORDINATOR	**DATE**	**FACILITY SAFETY HEAD**	**DATE**
Diana K. Kern	9/28/98	Thomas Pamplin	9/7/98

DOES THIS CHANGE AFFECT SAFETY?

☐ YES ☑ NO

CHANGE VERIFICATION

CM CONTRACTOR _____ DATE _____

CNS INCORPORATED

CM CONTRACTOR _____ DATE _____

CHANGE NUMBER: 99-622

SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	James Howard	49159	9/21/98

FACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE

INSTALL PRAXAIR'S TANK LEVEL SIGNALS INTO CONTROL ROOM

TTR # S01B-004-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
LD-1003775 SH. 3	F	INSTRUMENT I/O CABINET TUB - WIRING DIAGRAM	✓	
LD-1003776	AM	INSTRUMENT I/O CABINET TUC - WIRING DIAGRAM	✓	
LD-1003849	G	FIELD BOX (FB3600) I/O CONNECTION DIAGRAM	✓	
LD-1003699	U	DRIVE SYSTEM I/O CABINET TUA WIRING DIAGRAM	✓	

O Kennedy Copy 9/21/98

9/28/98

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
H W Bragg FOR A H P	9/25/98	Rusty McHatton	9-21-98
FACILITIES CONFIGURATION COORDINATOR	**DATE**	**FACILITY SAFETY HEAD**	**DATE**
Diana K. Hoover	9/28/98	Thomas Pinelli	9/21/98

DOES THIS CHANGE AFFECT SAFETY?

☐ YES ☑ NO

CHANGE VERIFICATION

CM CONTRACTOR _____ DATE _____

CNS INCORPORATED

CM CONTRACTOR _____ DATE _____

CHANGE NUMBER: 99-629

SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	HOWARD, JAMES M.,	j.m.howard@larc.nasa.gov	864-9159	9/21/98 3:07:36 PM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
INSTALL PRAXAIR'S TANK LEVEL SIGNALS INTO CONTROL ROOM

NOTES:

HOWARD, JAMES M., 9/21/98 3:08:56 PM	REFERENCE TTR S01B-004-98

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
LD 1003775	F	INSTRUMENT I/O CABINET TUB WIRING DIAGRAM	CCD
LD 1003776	AM	INSTRUMENT I/O CABINET TUC WIRING DIAGRAM	CCD
LD 1003849	G	FIELD BOX 3600 I/O CONNECTOR DIAGRAM	CCD
LD 1003699	U	DRIVE SYSTEM I/O CABINET TUA WIRING DIAGRAM	CCD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MCHATTON, J. RUSSELL,	DATE 9/21/98 3:19:14 PM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 9/21/98 3:20:04 PM

DOES THIS CHANGE AFFECT SAFETY?	CHANGE VERIFIED	CNS INCORPORATED	CHANGE NUMBER
☐ YES ☑ NO	CM CONTRACTOR	CM CONTRACTOR	99-629
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

3. Date: 9-14-98

4. CNS No.: 99-629

NTF TASK/TEST REQUEST

5. TASK/TEST: INSTALL PRAXAIR'S TANK LEVEL SIGNALS INTO CONTROL ROOM

DOC. IMPACT DOC.	YES	NO
Procedures	☐	☒
Sar	☐	☒
D-6	☐	☒
Recertification	☐	☒
Dwg's	☒	☐
Software	☒	☐
Aip-29	☐	☒
Others:		

6. BASIC DESCRIPTION/JUSTIFICATION: PRAXAIR HAS COMPLETED
1. THEIR TASK OF PROVIDING THEIR ANALOG TANK LEVEL SIGNALS TO THE NTF/PRAXAIR INTERFACE BOX.
2. THE NEXT STEP IS TO BRING SIGNALS TO CONTROL ROOM AND BUILD GRAPHIC SCREENS TO MONITOR THE TRANSFER PROCESS OF LN2 FROM PRAXAIR TO NTF

7. REFERENCE/ATTACHMENT
- SEE ATTACHED MEMO FROM DON REYNOLDS (PRAXAIR)
- TTR S30-002-98

8. SCHEDULE: 10-1-98 16. COTR APPROVAL:

9. SPECIAL INSTRUCTIONS CNS REQUIRED TO IMPLEMENT
POST TEST /00 MAINT.

10. PROCESS OWNER / TECHNICAL MONITOR: JAMES HOWARD

11. TASK/ TEST LEADER(S):
- NTEOS - CALSPAN DATA SYTEM
- ELECTRICAL - JAMES HOWARD
- DRAWINGS - NTF'S CALSPAN

12. FSH REVIEW: [signature] DATE: 9/21/98

13. NTF MANAGER APPROVAL: [signature] DATE: 9/14/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADERS(S): _____ DATE: _____

DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

TTR CLOSED: FSH APPROVAL: _____ DATE: _____

Distribution: SMITH, POPEWARDS, HOWARD, L. BOBBITT, KILGORE, O. WRIGHT, BOYCES, HOWARD SHORTT (PRAXAIR), PATRICK

1. Requester: Jeffrey S. Hill 2. TTR No.: S01B-002-98

3. Date: 9/21/98 4. CNS No.:

NTF TASK/TEST REQUEST

5. TASK/TEST:
Design, furnish and install an alternate method of filling the 3K dewar liquid nitrogen storage tank

6. BASIC DESCRIPTION/JUSTIFICATION:
The demands for liquid nitrogen from the 3K Dewar are growing as the NTF increases its productivity. These demands include: a second cryo chamber, balance cooling, and a model cooling system in the access housing. This Dewar is currently filled by truck. The proposed improvement will provide an alternate way to fill from the larger 250K tank to support multi-shift operations.
Provide adequate liquid nitrogen for cryo chamber operations, balance cooling, and model cooling. Projected usage may approach 2000 gallons per day.
Provide a method to manually fill from the 250K tank using the P-10 liquid nitrogen pump whenever trucks are not available. Provide a 1" insulated line from the 250K tank to the 3K Dewar with hand valves to control liquid level, just as it is currently from the trucks.

DOC. IMPACT DOC.	YES	NO
Procedures	☒	☐
Sar	☐	☒
D-6	☐	☒
Recertification	☐	☒
Dwg's	☒	☐
Software	☐	☒
Aip-29	☐	☒
Others: Special Project		

Cost est: $214,728

7. REFERENCE/ATTACHMENT
Refill capability for 3K Dewar to support 3.1B

8. SCHEDULE: 12/15/98

Special Projects

16. COTR APPROVAL: [signature] 9/21/98
17. Contract Manager Approval: [signature] 9-21-98
18. CO Approval: [signature] 9/28/98

9. SPECIAL INSTRUCTIONS
This will be a special project assigned to NTFOS - Calspan for the design, procurement, fab and installation. This is a reengineering reinvestment project funded activity. A SOC review will be required.
CNS REQUIRED TO IMPLEMENT

10. PROCESS OWNER / TECHNICAL MONITOR:
Tommy Smith, John Wilson

11. TASK/ TEST LEADER(S):
NTFOS - Calspan
RFB - Tom Popernack, Safety, Training and Procedure coordination and review

12. FSH REVIEW: [signature] DATE: 9/21/98

13: NTF MANAGER APPROVAL: [signature] DATE: 9/21/98

14. VERIFICATION OF PERFORMANCE:
TASK/TEST LEADERS(S): _____ DATE: _____
DRAWINGS: _____ DATE: _____
REQUESTER: _____ DATE: _____
AREA MONITOR: _____ DATE: _____

15. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

Distribution: Smith Wilson Tom P. Cap Butler Whitley S. Ward Barringer Osborn, PARASKA

1. REQUESTER: Chris Alexander

2. TTR NO.: 528-015-98

3. DATE: 9-28-98

4. CNS NO.:

NTF

TASK/TEST REQUEST

5. TASK/TEST: Modify Dummy Balances 101B+113

6. BASIC DESCRIPTION/JUSTIFICATION:
Modify dummy balances to simulate the wiring connector and purge tube that has been added to the live balances. This should improve the quality of hardware acceptance tests.

7. REFERENCES/ATTACHMENTS:
see attached drawings

8. SCHEDULE: 11-30-98

9. SPECIAL INSTRUCTIONS:
Post test III MAINTENANCE

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☐
SOFTWARE	☐	☒
AIP-29	☐	☒

OTHERS

TEST NO.

FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR: C. ALEXANDER

11. TASK/TEST LEADER(S): T. Smith, T. Popernack JR.

ETTD - C. ALEXANDER - dwg updates

12. FSH REVIEW: [signature] DATE: 9/28/98

13. NTF MANAGER APPROVAL: [signature] DATE: 9/28/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): DATE:

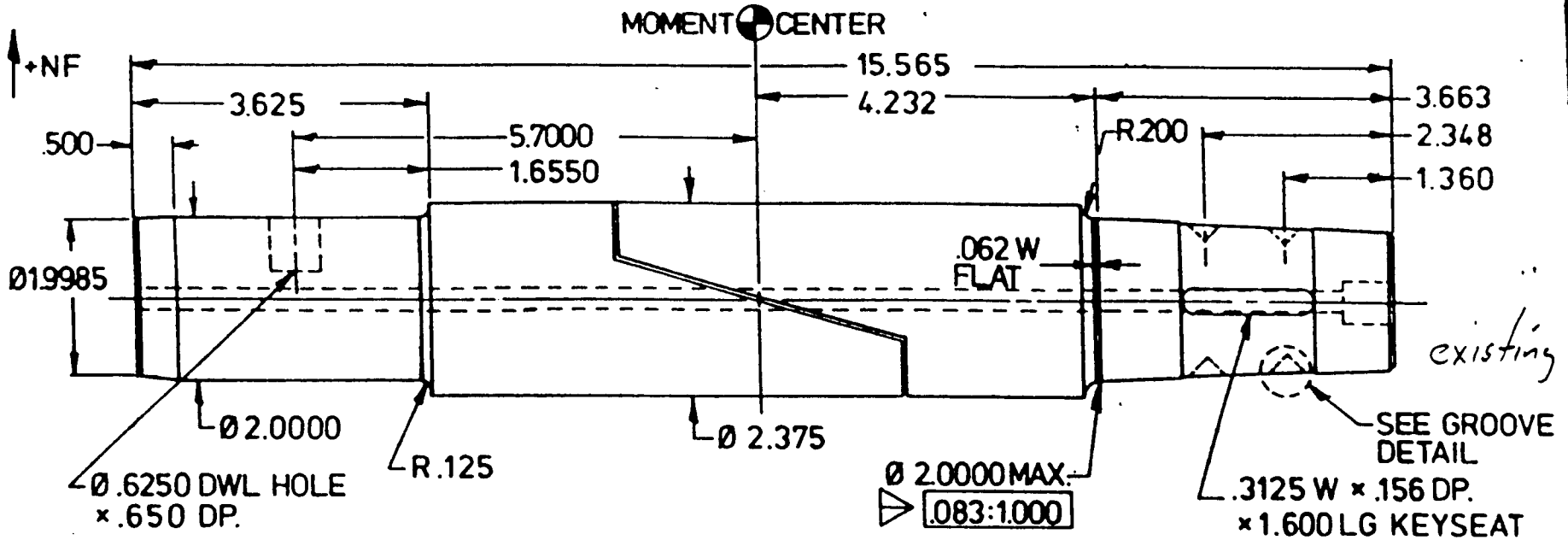
DRAWINGS: DATE:

REQUESTER: DATE:

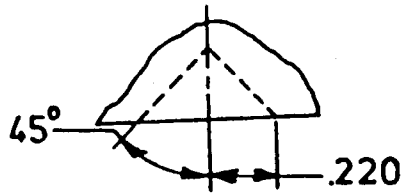
AREA MONITOR: DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

DISTRIBUTION: Popernack, C. Alexander, T. Smith, Pinaska, Kilgore



COMPONENT	LOADS
NORMAL	6,500 LBS
AXIAL	400 LBS
PITCH	13,000 in-LBS
ROLL	9,000 in-LBS
YAW	6,500 in-LBS
SIDE	4,000 LBS



GROOVE DETAIL
NTS

NOTES
1) ALL DIMENSIONS ARE IN INCHES.

MATERIAL: 200 CVM
SCALE: 1/2

TOLERANCE ON DIMENSIONS UNLESS SHOWN OTHERWISE
ANGULAR ± 5'
X.X (1 DECIMAL PLACE) ± .1
X.XX (2 DECIMAL PLACES) ± .02
X.XXX (3 DECIMAL PLACES) ± .005

SURFACE FINISH IN MICROINCHES RMS UNLESS SHOWN OTHERWISE: 32

EST. FIN. WEIGHT

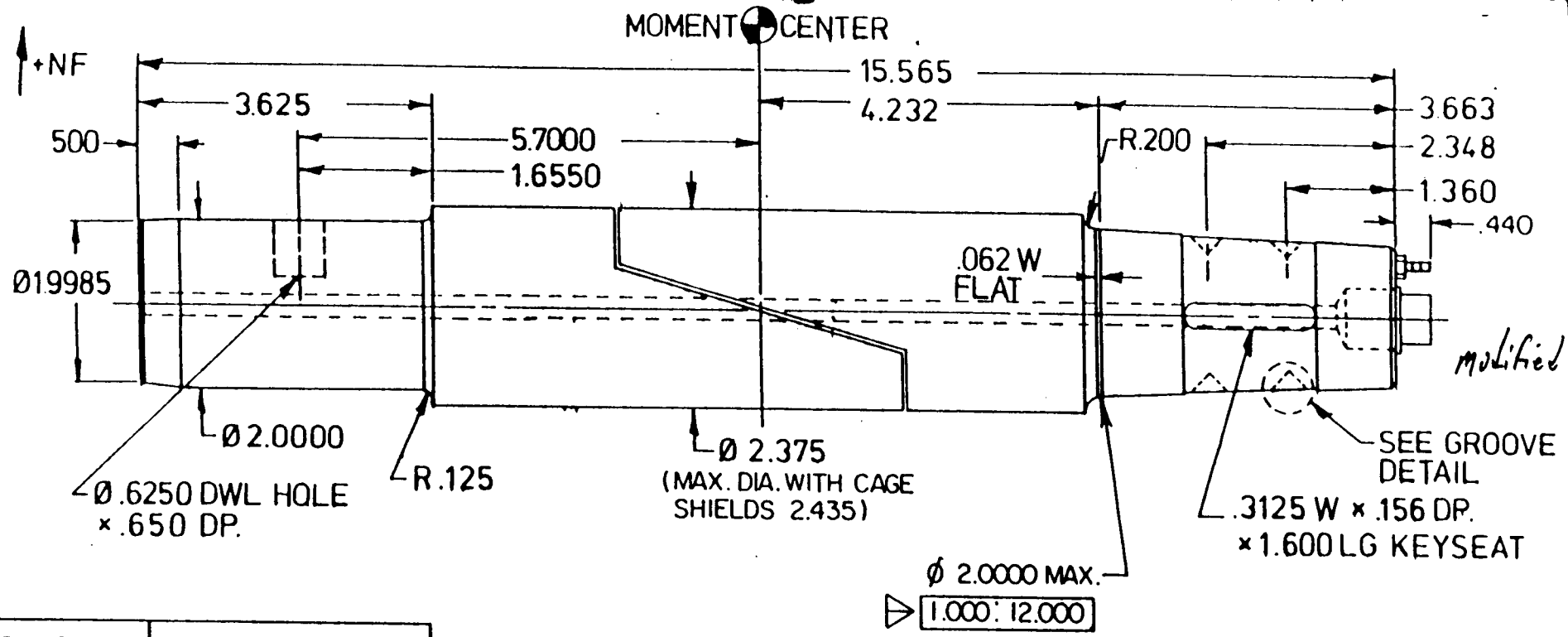
DR.	DEAN SPIERS	STRESS	
DES.	TOM STOKES	APPD.	
CHK		APPD	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LANGLEY RESEARCH CENTER
LANGLEY STATION HAMPTON, VIRGINIA 23665

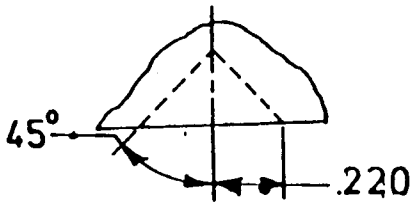
PROJECT TITLE: BALANCE NTF-113 A & B

DRAWING TITLE: OUTLINE DRAWING

PROJECT NO.	BLDG NO.	LA-1033392
JOB ORDER NO	SHEET NO	DRAWING NO.



COMPONENT	LOADS
NORMAL	6,500 LBS
AXIAL	400 LBS
PITCH	13,000 in·LBS
ROLL	9,000 in·LBS
YAW	6,500 in·LBS
SIDE	4,000 LBS



GROOVE DETAIL
NTS

NOTES

1) ALL DIMENSIONS ARE IN INCHES.

MATERIAL	200 CVM
SCALE	1/2
TOLERANCE ON DIMENSIONS UNLESS SHOWN OTHERWISE	X.X (1 DECIMAL PLACE) ± .1 X.XX (2 DECIMAL PLACES) ± .02 X.XXX (3 DECIMAL PLACES) ± .005
ANGULAR	± 5′
SURFACE FINISH IN MICROINCHES RMS UNLESS SHOWN OTHERWISE	32
EST. FIN. WEIGHT	
DR	R.T. DUPONT
DES	TOM STOKES
APPD	PUR 2-23-87
CHK	
APPD	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LANGLEY RESEARCH CENTER
LANGLEY STATION HAMPTON, VIRGINIA 23665

PROJECT TITLE	BALANCE NTF-113D
DRAWING TITLE	OUTLINE DRAWING
PROJECT NO.	
BLDG NO	
JOB ORDER NO	
SHEET NO	
DRAWING NO	LA- 1101184

T. Smith

3. REQUESTER: Jerry B. Adcock

1. TTR NO.: S20-017-98

4. DATE: 10/14/98

2. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: Improvements & Enhancements to ATS resulting from recent testing. (Test 110)

6. BASIC DESCRIPTION/JUSTIFICATION:

Suggested changes would improve test efficiency and ease of operation in ATS Mode.

1. Terminate Table--Activation of command not to take effect until a data point in progress is complete.
2. Lost of ATS when a sequence in progress---when restarting ATS a data point should be taken at the polar orientation that it was approaching at the time processing stopped. Currently it is skipped as if it were the1st point in a table.
3. Hold Sequence --Resumption of Sequence should increment Run # like ATS does when it concludes a sequence normally and advances to a new sequence.

8. REFERENCES/ATTACHMENTS: (TRACA NO., PTR NO., OR CI NO.)

9. PRIORITY

10. SCHEDULE: 11-20-98

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☐
OTHERS		
TEST NO.		

11. SPECIAL INSTRUCTIONS: Items 1, 2 & 7 are to be completed during Post test 110 maintenance. Ref. attached details CNS Required for Item 7

12 FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

13. TASK AREA AND MONITOR: C. NILES - Controls

14. TASK/TEST LEADER(S): ASE - GREG CHICHESTER - ATS CODE (Items 1 & 2)
WYLE - ASAY DATA SYSTEM INTERFACE
FSED - Humphreys micro code Item 7

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS

	NASA	CONTRACTOR	TOTAL
CALSPAN - Kilgore - MICRO CONTROLS			
RTB - ADcock			

MATERIAL/PROCURMENT ☐ YES ☐ NO $ TOTAL

16. FSH REVIEW: [signature] DATE: 11-12-98

17. NTF MANAGER APPROVAL: [signature] DATE: 11-12-98

19. VERIFICATION OF PERFORMANCE:

		DATE:
TASK/TEST LEADER(S):		
DRAWINGS:		
REQUESTER:		
AREA MONITOR:		

20. TTR CLOSED: FSH APPROVAL: DATE:

18. DISTRIBUTION: Hill, T. Smith, ADcock, CHICHESTER, Humphreys, NILES, Tom Holt, Kilgore, DATE:

NASA Langley (Rev. October 13, 1994) NTF Form No. 1

NTF ATS SYSTEM

List of suggested changes after some operational experience.

1. Teminate Table --- Activation of command should not take effect until a data point in progress is complete. On 2 occasions during Test 110 , terminate table option was utililized during the data taking process and the result was the model was in motion . As a result , non-static data was taken at an undesired model position. Another approach would be to put a "data-on" light on the display so the operator could avoid terminating the table while it is on.

2. Loss of ATS when a sequence in progress—When restarting ATS , a data point should be taken at the polar orientation that was being approached at the time processing stopped. Currently it is skipped as if it were the lst point in a table.

3. Hold Sequence -- Resumption of Sequence should increment Run # like ATS Does when it concludes a sequence normally and advances to a new sequence.

o/c. Don't Change 11/12/98

o 4. Edit Mode/Semi-span testing—The mods being used to allow ATS to be used In Semi-span testing do not allow alpha's beyond the limits for the arc –sec(-11 to +16 degs)

TTR CALSPAN + 5. On-line diagnostics--- need more on-line helps to indicate when necessary Communication breaks down between ATS and any of the other data systems. One shift was consumed trying to fiqure out why ATS was not taking data when The tunnel was on set point. It was a problem in communications with RCS.

o 6. For semi-span tests—manual edits of the polar table must be done in order to Run the polar. See attachment A.

7. "Drive Offline" Error Message-- This erroneous message stopped ATS even though the drive was on.

— Humphreys Kilgore

∞ 8. A Major Re-design of ATS to Enhance Coordination of Tunnel Sequences with Data Acquisition Sequences.

This re-design would co-ordinate Tunnel conditions and Sequences with the various types of data records. Wind off Zeros (Id = 3) , Flow angularity runs (ID =14 and ID = 12) for example . Essentially every point in a table should have a data ID associated with it. Wind-off zeros would be a one point table at a Mach = 0 sequence. How to properly intervene for ESP's calibrations should be considered.

		Fix by
✓	ASE TO FIX AS PART OF CONTRACT - NICES	NOV.
o	NEW WORK - by MAY 99	MAY 99
+	MIDDLE GROUND - TO BE WORKED AT FACILITY - MASON	NOW

3. REQUESTER: W. GOAD
4. DATE: 10/24/97

1. TTR NO.: 516-009-97
2. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: PLEASE PROVIDE DOCUMENTATION AND CODE AS LISTED (VIDEO SYSTEM)

6. BASIC DESCRIPTION/JUSTIFICATION:
THIS INFORMATION IS NECESSARY FOR:
A) TSP SYSTEM HARDWARE DEVELOPMENT.
B) CONTROL CODE DEVELOPMENT,
C) VMD SYSTEM DEVELOPMENT & INTEGRATION

8. REFERENCES/ATTACHMENTS:(PRACA NO., PFR NO., OR CI NO.)

9. PRIORITY:
1 EFFECTS CURRENT TUNNEL OP. SCH. ☐
2 EFFECTS FUTURE TUNNEL OP. SCH. ☒
3 NO EFFECT ON TUNNEL OP. SCH. ☐

10. SCHEDULE: 11/7/97

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.		

12 FSH TRACKING
☐ CNS ISSUED
☐ FORM 69
☐ SPE

11. SPECIAL INSTRUCTIONS:

13. TASK AREA & MONITOR: VIDEO SYSTEM – POPERNACK

14. TASK/TEST LEADER(S): CALSPAN – VIDEO SYSTEM

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS
NASA ____ CONTRACTOR ____ TOTAL ____

MATERIAL/PROCURMENT YES ☐ NO ☐ $____ TOTAL

16. FSH REVIEW: [signature] DATE: 10/27/97

17. NTF MANAGER APPROVAL: George Boyles DATE: 10/27/97

19. VERIFICATION OF PERFORMANCE:
TASK/TEST LEADER(S): ____ DATE: ____
DRAWINGS: ____ DATE: ____
REQUESTER: ____ DATE: ____
AREA MONITOR: ____ DATE: ____

20. TTR CLOSED: FSH APPROVAL: ____ DATE: ____

18. DISTRIBUTION: HILL, BOYLES, KILGORE, GOAD
DATE

NASA Langley (Rev. October 13, 1994) NTF Form No. 1

NTF Video System Drawing, Code and Document Request
October 24, 1997

1. Complete system and subsystem drawing and document list.
2. Cameras #4 and #12 electrical / controls.
3. Minicams #1, 8, 9, 14, 32, 36, 37 and 40 electrical / controls.
4. Camera package and mount drawings for minicams #1, 8, 9, and 14.
5. Camera package and mount drawings for minicams #32, 36, 37 and 40.
6. Camera package drawings for main cameras #55 and 56.
7. Camera package drawing for Photometrics camera control unit.
8. Tunnel penetration layout and documentation for all video system wiring and purge.
9. Test section lights layout and mounts for ceiling / floor and sidewall.
10. Top view test section ceiling beams with tapped hole locations.
11. Cross section view test ceiling beams.
12. Purge ring drawings for main camera and minicam packages.
13. SMD / Apollo III ceiling camera package,
14. Instrument rack V8 layout, wiring and terminal block documentation.
15. Instrument rack V8A layout, wiring and terminal block documentation.
16. Instrument rack V9 layout, wiring and terminal block documentation
17. Instrument racks V1, 2, 3, 4, 5, 5A, 6 and 7 layout documentation.
18. Instrument rack V2 patch panel layout documentation.
19. Control panel V1 electrical documentation and layout.
20. Control panel V9 electrical documentation and layout.
21. Control panel C31 electrical documentation and layout.
22. Control panel V8 electrical documentation and layout.
23. Auxiliary control panel V9 electrical documentation and layout.
24. Computer control system electrical drawings and layout.
25. Computer control system software and documentation (backup copy).

3. DATE: 10-28-98 | 4. CNS NO.: 99-631

NTF TASK/TEST REQUEST

5. TASK/TEST: ADD TIMERS IN P11, P12 POWER INTERLOCK CIRCUITS

6. BASIC DESCRIPTION/JUSTIFICATION:
ADD A TWO SECOND DELAY TIMER IN THE SENDOUT VALVE 3607L POWER INTERLOCK CIRCUIT TO PREVENT LATCHING ON ERRONEOUS SPIKES

7. REFERENCES/ATTACHMENTS:

8. SCHEDULE: 11/15/98

9. SPECIAL INSTRUCTIONS:
Post TEST I/O MAINTENANCE

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☐
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

☑ CNS ISSUED	10/29/98
☐ FORM 69	
☐ SPE	

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): JAMES HOWARD
CALSPAN - DOCUMENTATION

12. FSH REVIEW: Thomas Powell DATE: 10/28/98

13. NTF MANAGER APPROVAL: D S Air DATE: 10/29/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, T. SMITH, HOWARD, WRIGHT, WHITLEY, ANDERSON, C...

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	JAMES HOWARD	49159	10-28-98

FACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE

ADD A TWO SECOND DELAY IN SENDOUT VALVE 36071 POWER INTERLOCK CIRCUIT

REF TTR S01A-001-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
LD 1006405	—	LN_2 STORAGE TANK & SYSTEM LOGIC DIAGRAM 5 OF 5.	✓	

J K Kennedy 10/29/98
Joyce Cofer

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
for AHP	11/2/98	[illegible]	10-28-98
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD	DATE
Diana R. Hsu	11/3/98	[illegible]	10/28/98

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☐ NO

CHANGE VERIFICATION — CM CONTRACTOR — DATE

CNS INCORPORATED — CM CONTRACTOR — DATE

CHANGE NUMBER: 99-637

SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	HOWARD, JAMES M.,	j.m.howard@larc.nasa.gov	864-9159	10/29/98 8:53:20 AM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
ADD A TWO SECOND DELAY IN SENDOUT VALVE 3607L.

NOTES:

HOWARD, JAMES M., 10/29/98 9:01:10 AM	REF. TTR S01A-001-98. THIS CNS IS TO ADD A TWO SECOND DELAY TIMER IN THE SENDOUT VALVE 3607L POWER INTERLOCK CIRCUIT TO PREVENT LATCHING ON ERRONEOUS SPIKES.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
LD-1006405	-	LN2 STORAGE TANK	CCD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MCHATTON, J. RUSSELL,	DATE 10/29/98 9:06:19 AM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 10/29/98 9:07:23 AM

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-637
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

L. Smith

1. REQUESTER: POPERNACK
2. TTR NO.: S22B-C06-98
3. DATE: Oct 14, 1998
4. CNS NO.: 99-634

NTF

TASK/TEST REQUEST

5. TASK/TEST: Modify Temperature PC Control List + Keye Input List

6. BASIC DESCRIPTION/JUSTIFICATION:
Modify per red lined lists

7. REFERENCES/ATTACHMENTS:
Attached Red lines

8. SCHEDULE: 10/20/98

9. SPECIAL INSTRUCTIONS:

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

☑	CNS ISSUED 10/15/98
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): John Masters

12. FSH REVIEW: [signature] DATE: 10/14/98

13. NTF MANAGER APPROVAL: [signature] DATE: 10/14/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, BOYLES, T. SMITH, MASTEN, HOWARD

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	T. G. POPERNACK JR	45163	10-14-98

FACILITY NAME	EFFORT CODE
NTF	99

DESCRIPTION OF CHANGE

UPDATE LISTING & CHANNELS FOR SEMI SPAN MECHANISM

REF TTR S22B-006-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
99-HCPC	0	MODIFICATIONS TO NTF FY 94 HEATER CONTROLS PC & SOFTWARE PRODUCT SPECIFICATION	V	

10/15/98

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
for AHP	10/15/98		10/14/98
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD	DATE
	10/15/98		10/14/99

DOES THIS CHANGE AFFECT SAFETY?	CHANGE VERIFICATION	CNS INCORPORATED	CHANGE NUMBER
☐ YES ☐ NO	CM CONTRACTOR / DATE	CM CONTRACTOR / DATE	99-634
			SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	POPERNACK, THOMAS G., JR.	t.g.popernack.jr@larc.nasa.gov	864-5163	10/15/98 8:48:54 AM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
MODIFY TEMPERATURE PC CONTROL LIST AND KAYE INPUT LIST.

NOTES;

POPERNACK, THOMAS G., JR. 10/15/98 8:54:26 AM	THIS CNS IS TO UPDATE THE LISTING AND CHANNELS FOR SEMI-SPAN MECHANISM (REFERENCE TTR S22B-006-98).

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
99-HCPC	0	HEATER CONTROLS PC AND SOFTWARE PRODUCT SPECIFICATION	CCD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR SMITH, THOMAS L.,	DATE 10/15/98 9:00:23 AM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 10/15/98 9:02:28 AM

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-634
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel	Fi B
181	11				175	1	330	190	-280	134	US ROLL BRNG	TE1708-11	
182	11				175	1	376	190	-280	226	TE2206 BACKUP	TE2233	
183	11				700	1	377	900	-280	227	US NAC CKT #3 24KW ELE.	TE2235	
184	11				175	1	380	190	-280	230	US NS NAC STR ZN#1	TE2261	
185	11				175	1	382	190	-280	232	US NS NAC STR ZN#3	TE2265	
186	11				175	1	384	190	-280	234	US NS NAC STR ZN#4	TE2268	
187	11				175	1	385	190	-280	235	US NS NAC STR ZN#5	TE2270	
188	11				175	1	387	190	-280	237	US NS NAC STR ZN#6	TE2273	
189	11				175	1	389	190	-280	239	US FS NAC STR ZN#1	TE2281	
190	11				175	1	390	190	-280	240	US FS NAC STR ZN#2	TE2283	
191	11				175	1	391	190	-280	241	US FS NAC STR ZN#3	TE2285	
192	11				175	1	393	190	-280	243	US FS NAC STR ZN#4	TE2288	
193	11				175	1	394	190	-280	244	US FS NAC STR ZN#5	TE2290	
194	11				175	1	396	190	-280	246	US FS NAC STR ZN#6	TE2293	
195	11				175	1	400	190	-280	212	IGV CYL BOT MONITOR	TE2216	
196	11				175	1	401	190	-280	213	IGV RING TOP	TE2217	
197	11				175	1	417	190	-280	200	IGV AREA TOP FREE AIR	TE2203	
198	11				175	1	418	190	-280	201	XFER CASE TOP O BD	TE2205	
199	11				175	1	419	190	-280	202	XFER CASE TOP I BD	TE2206	
200	11				175	1	423	190	-280	206	IGV CYL BOT CONT	TE2210	
201	11				175	1	425	190	-280	208	IGV CYL TOP MONITOR	TE2212	
202	11				175	1	473	190	-280	91	ARCSECU_DWNSTRM_BEAR_P	TE2345	
203	11				175	1	475	190	-280	108	ARCSECU_DWNSTRM_BEAR_P	TE2347	
204	12	Roll	10	5	150	1	320	150	-280	124	US ROLL BRNG	TE1708-1	
205	7				150	1	321	150	-280	0	US ROLL BRNG	TE1708-2	
206	7				150	1	322	150	-280	126	US ROLL BRNG	TE1708-3	
207	7				150	1	323	150	-280	0	US ROLL BRNG	TE1708-4	
208	7				150	1	324	150	-280	128	US ROLL BRNG	TE1708-5	
209	7				150	1	325	150	-280	0	US ROLL BRNG	TE1708-6	
210	7				150	1	326	150	-280	130	US ROLL BRNG	TE1708-7	
211	7				150	1	327	150	-280	149	US ROLL BRNG	TE1708-8	
212	7				150	1	328	150	-280	132	US ROLL BRNG	TE1708-9	
213	7				150	1	329	150	-280	151	US ROLL BRNG	TE1708-10	
214	7				150	1	330	150	-280	134	US ROLL BRNG	TE1708-11	
215							100						
216							100						

Add 12 Channels Here
as shown on Page 7

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel	Field Box
217							100						
218							100						
204 11					145	1	439	155	-280	30	INNER BALANCE RING 12 O'clk	TE2401	
205					"	"	440	"	"	32	" " 3 O'clk	TE2402	
206					"	"	441	"	"	34	" " 6 O'clk	TE2403	
207					"	"	442	"	"	36	" " 9 O'clk	TE2404	
208					"	"	443	"	"	38	Outer BALANCE RING 6 O'clk	TE2396	
209					"	"	444	"	"	40	" " 12 O'clk	TE2392	
210					"	"	445	"	"	43	Balance Drive Gear Box Top	TE2390	
211					"	"	446	"	"	54	INNer balance Bearing	TE2405	
212					"	"	447	"	"	55	Outer Balance bearing 6 O'clk	TE2397	
213					"	"	448	"	"	56	Convection Heater Temp	TE2382	
214					"	"	449	"	"	57	Motor Gear Box Oil Temp	TE2389	
215					"	"	450	"	"	58	Gear Box Oil Temperature	TE2388	

SGP 10/14/93

Temperature Monitor Chan...ls Cross Referance List

TMS RECORD	Next PCS Channel	PCS Channel	Fieldbox No.	Digi-link Channel	Transducer Type	Signal Name	Description		Control Record
486	320	123	2300	402	T	TE2358	ARCSECU DWNSTRM BEAR 2nd		
487			2300	403			SPARE		
488			2300	404			SPARE		
489			2300	405			SPARE		
490			2300	406			SPARE		
491			2300	407			SPARE		
492			2300	408			SPARE		
493			2300	409			SPARE		
494			2300	410			SPARE		
495			2300	411			SPARE		
496			2300	412			SPARE		
497			2300	413			SPARE		
498			2300	414			SPARE		
499			2300	415			SPARE		
500			2300	416			SPARE		
501	322	125	2300	501	~~T~~	~~TE2380~~	~~SIDEW GEA CAS F RED CAVT~~		
502	324	127	2300	502	~~T~~	~~TE2381~~	~~SIDEW GEA CAS F RED CAVB~~		
503	326	129	2300	503	~~T~~	~~TE2382~~	~~SIDEW INSIDE ENCL @ MOT~~		
504	328	131	2300	504	~~T~~	~~TE2383~~	~~SIDEW INSIDE ENCL @ POT~~		
505	330	133	2300	505	~~T~~	~~TE2384~~	~~SIDEW GEA CASE HARM DR M~~		
506	315	136	2300	506	~~T~~	~~TE2385~~	~~SIDEW GEA BOX PRI R CAV~~		
507	508	140	2300	507	~~T~~	~~TE2386~~	~~SIDEW INER ROT BAL CAV~~		
508	203	141	2300	508	~~T~~	~~TE2387~~	~~SIDEW OUTR SUP INR HEATR~~		
509			2300	509			SPARE		
510			2300	510			SPARE		
511			2300	511			SPARE		
512			2300	512			SPARE		
513			2300	513			SPARE		
514			2300	514			SPARE		
515			2300	515			SPARE		
516			2300	516			SPARE		
517			2300	601			SPARE		
518			2300	602			SPARE		
519			2300	603			SPARE		
520			2300	604			SPARE		

Spares

1. REQUESTER: T. PODERNACK

2. TTR NO.: STC-0241-98

3. DATE:

4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: CORRECT THERMOCOUPLE PROBLEMS FROM TEST 100

6. BASIC DESCRIPTION/JUSTIFICATION:
IDENTIFY THERMOCOUPLE PROBLEMS AND PROVIDE A SOLUTION.

7. REFERENCES/ATTACHMENTS:
LIST FROM TEST 100

8. SCHEDULE: 11/30/98

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

9. SPECIAL INSTRUCTIONS:

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): ELECTRICAL - HOWARD

12. FSH REVIEW: [signature] DATE: 10/14/98

13. NTF MANAGER APPROVAL: [signature] DATE: 10/14/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): DATE:

DRAWINGS: DATE:

REQUESTER: DATE:

AREA MONITOR: DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, BOYLES, T. SMITH, HOWARD, KILGORE, BOBBITT

DEVICE	VALUE	DESCRIPTION
te2213	482600.0	HW, temp-us nacelle htr.
te2290	462400.0	HW, us nacelle strut htr. (ns)
open — te1708-9	384.9..	HA, temp-roll bearing (us)
te1090-4	222200.0	HA, temp-ds diffuser rod (ns)
te1708-5		
te1708-7	25210.00	HA, temp - us plenum door lock
te1202		
te1201	26210.00	HA, temp-ns plenum door travel
te1127-1	332100.00	HA, temp-ds gate dog #4 act #1
te1401-1	352300.00	HA, temp-top rel ns. act.
te2226	47250.00	HA, temp - us nacelle htr.
te1521-1	232400.	HA, temp-btm msw fs act.
te1440-1	352300.	HA, temp rel ns act.
te2235	452300	HA, temp - us nacelle heater
te2212	482600.0	HA, temp - us nacelle heater
te1522-1	24240.000	HA, temp - btm msw fs act.
te1180-3	342200.00	HA, temp - us contention rod (fs)
te1000-1	15210.00	HA, temp - us gate dog #1 act
te2212	48260	HW, us nacelle heater
te1027-3	3147.3	HA, temp - ds dog #3 rod (ns bot)
te1615	242200	HA, strut rod heated area
te1100-3	182200.	HA, temp us dog #2 rod
te2233	45230	HA temp-us nacelle htr
te1070-1	21210.	HA temp-ds gate ns lift act.
te1160-3	342200.	HA us gate lift fs act.
te1708-8	382600.	HA-temp roll bearing (us)
te1160-1	33210.	HA us gate lift fs act.
te2285	46240.	us nacelle strut htr (ns)
te2293	46240	HW us nacelle-strut htr (ns)
te1400-1	352300	HA temp rel ns act.
te1090-1	262100	HA temp ds gate ns diffuser
te2228	472500.	HA temp - us nacelle htr.

te2235	452300.00	HA, temp - us nAcelle htr. - ckt # -
te2225	472500.00	HA, temp - us nAcelle htr. - ckt #2
te1107-3	122200.00	HA, temp - us DOG #3 RoD (fs bot
te1027-1	222100.00	HA, temp - ds gate dog #3 Act
te1027-3	2743.69	HA, temp - ds dog #3 rod (us bot)
te1106-1	ourange	HA, temp - ds rod bearing

1. REQUESTER: T. POPERNACK
2. TTR NO.: S16-002-98
3. DATE: 11/2/99
4. CNS NO.: 99-641

NTF TASK/TEST REQUEST

5. TASK/TEST: FIELD VERIFICATION OF VIDEO SYSTEM COMPONENTS AND SUB-SYSTEMS

6. BASIC DESCRIPTION/JUSTIFICATION:
FIELD VERIFY LISTED VIDEO SYSTEM COMPONENTS AND SUB-SYSTEMS AND INCORPORATE INTO CONFIGURATION MANAGEMENT PROGRAM

7. REFERENCES/ATTACHMENTS:
LD-1005728 LE-1007128
LE-1005740 SH-1&2 LE-1007125
LD-1005605 SH 1-6
LD-1005606 SH 1-3

8. SCHEDULE: 6/9/99

9. SPECIAL INSTRUCTIONS:
CNS REQUIRED Post TEST 112 MAINT.

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☐
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.	112	

FSH TRACKING

☑	CNS ISSUED 11/2/98
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): CALSPAN - PLANT SYSTEMS, TEST OPERATIONS, DOCUMENTATION

12. FSH REVIEW: [signature] DATE: 11/2/98

13. NTF MANAGER APPROVAL: [signature] DATE: 11/2/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

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DISTRIBUTION: HILL, T. SMITH, GOAD, WHITLEY, KILGORE, WRIGHT, PAPASKA

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	T. POPERNACK	45163	11/2/98

FACILITY NAME	EFFORT CODE
NTF	99

DESCRIPTION OF CHANGE

FIELD VERIFICATION OF VIDEO SYSTEM COMPONENTS AND SUB-SYSTEMS

REF TTR S16-002-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
LD-1005728	—	CONTROL ROOM CLOSED CIRCUIT TELEVISION (CCTV) S/S		✓
LE-1005740 SH-1-2	—	FARSIDE VIDEO CAMERA HSG		✓
LD-1005605 SH 1-6	—	MINITUFT CAMERA HSG ASSY		✓
LD-1005606 SH 1-3	—	MINITUFT FLASH LAMP HOUSING		✓
LE-1007128	—	SMD/APOLLO CAMERA HSG ASSY DRAWING		✓
LE-1007125	—	SMD/APOLLO CAMERA HSG		✓

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
J.W. Beasley	11/5/98		11/2/98
FACILITIES CONFIGURATION COORDINATOR	**DATE**	**FACILITY SAFETY HEAD**	**DATE**
Diana Hoover	11/6/98	Thomas Popernack	11/2/98

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☐ NO

CHANGE VERIFICATION — CM CONTRACTOR _____ DATE _____

CNS INCORPORATED — CM CONTRACTOR _____ DATE _____

CHANGE NUMBER 99-641

SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	POPERNACK, THOMAS G., JR.	t.g.popernack.jr@larc.nasa.gov	864-5163	11/2/98 12:00:31 PM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
FIELD VERIFICATION OF VIDEO SYSTEM COMPONENTS AND SUB-SYSTEMS.

NOTES:

POPERNACK, THOMAS G., JR. 11/2/98 12:04:11 PM	REF. TTR S16-002-98. THIS CNS WILL RESULT IN 14 SFD DRAWINGS BEING FIELD VERIFIED AND INCORPORATED AS CCD.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
LD-1005728	-	CONTROL ROOM CLOSED CIRCUIT TELEVISION SYSTEM	SFD
LE-1005740 SHTS 1 AND 2	-	FARSIDE VIDEO CAMERA HOUSING	SFD
LD-1005605 SHTS 1 THRU 6	-	MINITUFT CAMERA HOUSING ASSEMBLY	SFD
LD-1005606 SHTS 1 THRU 3	-	MINITUFT FLASH LAMP HOUSING	SFD
LE-1007128	-	SMD/APOLLO CAMERA HOUSING ASSEMBLY DRAWING	SFD
LE-1007125 SHT 1 OF 2	-	SMD/APOLLO CAMERA HOUSING	SFD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR SMITH, THOMAS L.,	DATE 11/2/98 12:30:01 PM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 11/2/98 12:30:59 PM

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-641
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

3. REQUESTER:	J. Vega	1. TTR NO.:	S22A - 003 - 98
4. DATE:	11-12-98	2. CNS NO.:	

NTF TASK/TEST REQUEST

5. TASK/TEST: Redesign Limit switch mounting plates.

6. BASIC DESCRIPTION/JUSTIFICATION:

New limit switch mounting plates for LS 1823, LS 1963 ~~and~~ (top + bottom TS Wall at 0°) need to designed + installed to prevent plate from rotating out of position. (Located under the floor at NS DS + directly above at top.)

8. REFERENCES/ATTACHMENTS:

mounting plate reference drawing
SEE ATTACHED SKETCH

9. SCHEDULE: ~~12/1/98~~ 11-20-98

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S.	☐	☒
SOFTWARE	☐	☒
TEST NO.		
OTHERS		

11. FSH TRACKING

☐ CNS ISSUED

☐ FORM 69

☐ SPE

10. SPECIAL INSTRUCTIONS:

Post test I/O maint

12. TASK AREA:

13. TASK/TEST LEADER(S): CALSPAN - DESIGN, PLANT SYSTEMS

14. SUPPORT REQUIREMENTS: HOWARD - ELECTRICAL

15. FSH REVIEW: [signature] DATE: 11/13/98

16. NTF MANAGER APPROVAL: [signature] DATE: 11/17/98

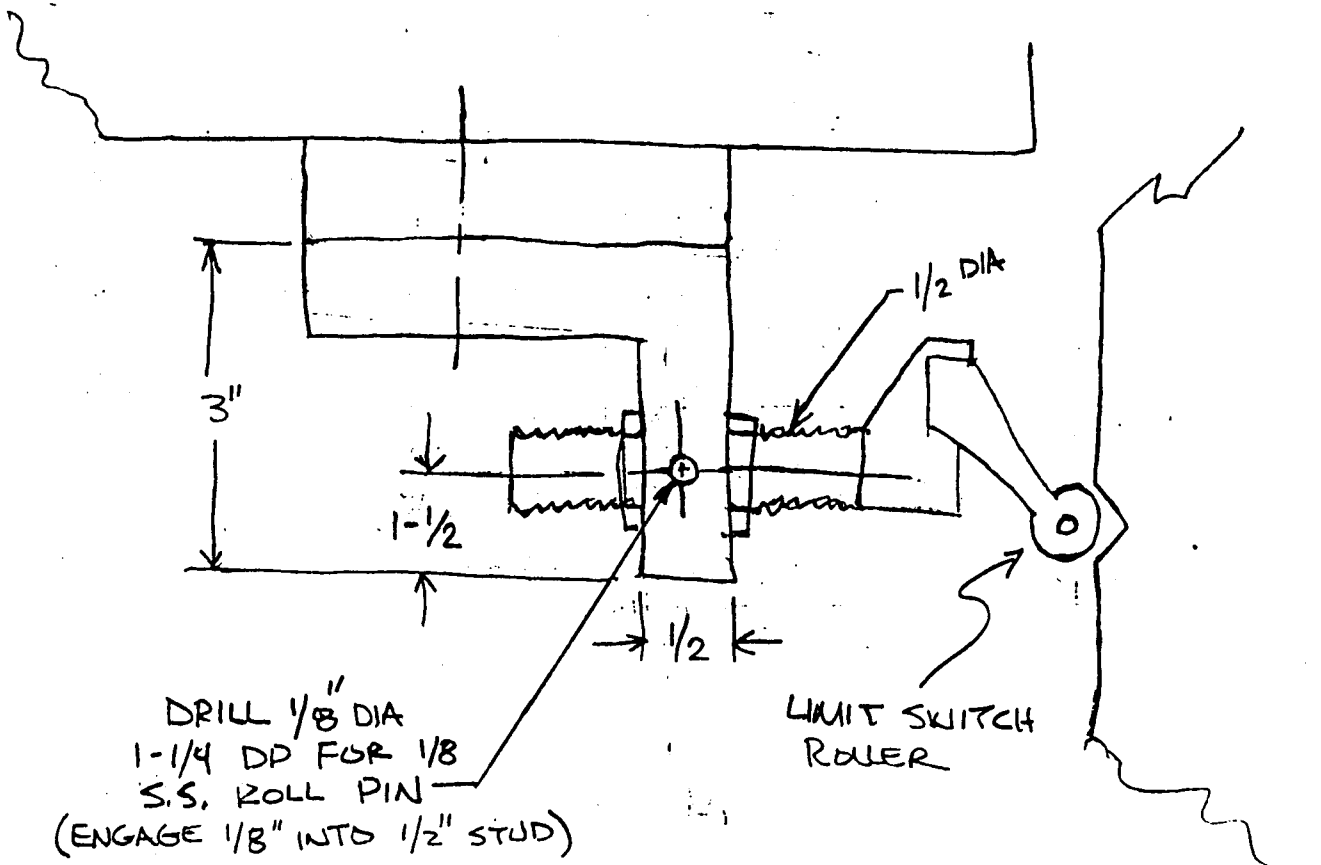
18. VERIFICATION OF PERFORMANCE:

		DATE:
TASK/TEST LEADER(S):		
DRAWINGS:		DATE:
REQUESTER:		DATE:
TASK MONITOR:		DATE:

19. TTR CLOSED: FSH APPROVAL: DATE:

DISTRIBUTION: WRIGHT, SMITH, HOWARD, VEGA, PANICK, ...

ALW 11/12/98



VIEW LKG UPSTRM

— BOTTOM - NEARSIDE —

(TOP SIMULAR)

3. REQUESTER: Jean M. Foster

4. DATE: Nov. 12, 1998

1. TTR NO.: 320-18

2. CNS NO.: 99-644

NTF TASK/TEST REQUEST

5. TASK/TEST: Implement attached preliminary Mach calibration table in on-line software(RCS), off-line software, and Mach control microprocessor (A).

6. BASIC DESCRIPTION/JUSTIFICATION:

Current calibration update is needed for Test 111 to insure desired test Mach Numbers are obtained.

8. REFERENCES/ATTACHMENTS:(PRACA NO., PFR NO., OR CI NO.)

9. PRIORITY: Effects current tunnel operations.
Effects future tunnel operations.

10. SCHEDULE: 11/20/98

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☒

OTHERS: _____

TEST NO.: 111

12 FSH TRACKING

☑ CNS ISSUED 11/20/98

☐ FORM 69 _____

☐ SPE _____

11. SPECIAL INSTRUCTIONS:

See attached table. See Jerry Adcock if there are questions.
CNS REQUIRED FOR MICRO UPDATE

13. TASK AREA AND MONITOR: Data Systems, Micro A - Boyles

14. TASK/TEST LEADER(S): Calspan / Kilgore, FSED / Humphreys

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS _____ NASA _____ CONTRACTOR _____ TOTAL

MATERIAL/PROCURMENT ☐ YES ☐ NO $_____ TOTAL

16. FSH REVIEW: Thom Powell DATE: 11/13/98

17. NTF MANAGER APPROVAL: Thom Powell for JSH DATE: 11/16/98

19. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): _____ DATE: _____

DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

20. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	T. G. POPERNACK JR.	45163	11/19/98

FACILITY NAME	EFFORT CODE
NTF	99

DESCRIPTION OF CHANGE

ADD NEW TUNNEL CALIBRATION TO MICRO A

REF TTR S20-018-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained	
			CCD	SFD
MICRO A	10/29/98	MICRO A SOFTWARE	✓	

Approved
Gary L. Murphy
11/20/98

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
For AHP	11/20/98		11-19-98
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD	DATE
	11/20/98		11/19/98

DOES THIS CHANGE AFFECT SAFETY?	CHANGE VERIFICATION	CNS INCORPORATED	CHANGE NUMBER
☐ YES ☐ NO	CM CONTRACTOR / DATE	CM CONTRACTOR / DATE	99-644
			SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	POPERNACK, THOMAS G., JR.	t.g.popernack.jr@larc.nasa.gov	864-5163	11/20/98 7:27:44 AM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
ADD NEW TUNNEL CALIBRATION TO MICRO A (REF. TTR S20-018-98).

NOTES:

POPERNACK, THOMAS G., JR. 11/20/98 7:30:01 AM	CNS REQUIRED FOR MICRO UPDATE.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD SFD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MEADOR, JOHN W.,	DATE 11/20/98 7:33:33 AM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 11/20/98 7:35:09 AM

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-644
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

3. REQUESTER: Jean M. Foster

1. TTR NO.: 520-018-98

4. DATE: Nov. 12, 1998

2. CNS NO.:

NTF

TASK/TEST REQUEST

5. TASK/TEST: Implement attached preliminary Mach calibration table in on-line software(RCS), off-line software, and Mach control microprocessor (A).

6. BASIC DESCRIPTION/JUSTIFICATION:

Current calibration update is needed for Test 111 to insure desired test Mach Numbers are obtained.

8. REFERENCES/ATTACHMENTS:(PRACA NO., PFR NO., OR CI NO.)

9. PRIORITY: Effects current tunnel operations.
Effects future tunnel operations.

10. SCHEDULE: 11/20/98

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☒
OTHERS		
TEST NO.	111	

12 FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

11. SPECIAL INSTRUCTIONS:

See attached table. See Jerry Adcock if there are questions.
CNS REQUIRED FOR MICRO UPDATE

13. TASK AREA AND MONITOR: Data Systems, Micro A - Boyles

14. TASK/TEST LEADER(S): Calspan / Kilgore, FSED / Humphreys

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS _____ NASA _____ CONTRACTOR _____ TOTAL

MATERIAL/PROCURMENT ☐ YES ☐ NO $_____ TOTAL

16. FSH REVIEW: [signature] DATE: 11/13/98

17. NTF MANAGER APPROVAL: [signature] for JSH DATE: 11/16/98

19. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): _____ DATE: _____

DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

20. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

18. DISTRIBUTION: HILL, PARASKA, FOSTER, T. SMITH, KILGORE, HUMPHREYS, BOYLES

DATE:

NASA Langley (Rev. October 13, 1994) NTF Form No. 1

DELTA MACH CORRECTIONS—FIXED, SUBSONIC WALL SETTINGS

	REYNOLDS NUMBER PER FOOT, MILLIONS					
MACH	6.00	14.00	30.00	60.00	100.00	130.00
0.20	-1.10E-03	-1.20E-03	-1.30E-03	-1.50E-03	-1.50E-03	-1.60E-03
0.30	-1.60E-03	-1.70E-03	-1.90E-03	-2.30E-03	-2.40E-03	-2.50E-03
0.40	-2.10E-03	-2.30E-03	-2.60E-03	-3.10E-03	-3.30E-03	-3.50E-03
0.50	-2.50E-03	-2.90E-03	-3.30E-03	-3.90E-03	-4.30E-03	-4.40E-03
0.60	-2.80E-03	-3.50E-03	-4.10E-03	-4.80E-03	-5.30E-03	-5.50E-03
0.70	-3.10E-03	-3.90E-03	-4.80E-03	-5.80E-03	-6.40E-03	-6.70E-03
0.80	-3.30E-03	-4.40E-03	-5.60E-03	-7.00E-03	-8.00E-03	-8.50E-03
0.90	-3.30E-03	-4.90E-03	-6.50E-03	-9.00E-03	-1.13E-02	-1.37E-02
0.95	-3.20E-03	-5.00E-03	-7.00E-03	-1.01E-02	-1.42E-02	-1.67E-02
0.98	-3.10E-03	-5.10E-03	-7.20E-03	-1.03E-02	-1.41E-02	-1.61E-02
1.00	-3.10E-03	-5.10E-03	-7.30E-03	-1.02E-02	-1.30E-02	-1.48E-02
1.02	-3.10E-03	-5.20E-03	-7.40E-03	-1.01E-02	-1.19E-02	-1.35E-02
1.05	-3.30E-03	-5.50E-03	-7.60E-03	-9.80E-03	-1.11E-02	-1.23E-02
1.10	-4.30E-03	-6.10E-03	-7.80E-03	-9.20E-03	-1.03E-02	-1.07E-02
1.15	-4.30E-03	-6.10E-03	-7.80E-03	-9.20E-03	-1.03E-02	-1.07E-02
1.20	-4.30E-03	-6.10E-03	-7.80E-03	-9.20E-03	-1.03E-02	-1.07E-02

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	POPERNACK, THOMAS G., JR.	t.g.popernack.jr@larc.nasa.gov	864-5163	9/9/98 2:21:48 PM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
CHANGE RELIEF VALVE SETTING ON FAN LUBE OIL SYSTEM MAIN PUMP

NOTES:

POPERNACK, THOMAS G., JR. 9/9/98 2:23:34 PM	REFERENCE TTR S12C-003-98

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
LD-997239	P	FAN BEARING LUBE SYS.P/I DIAGRAM	CCD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MEADOR, JOHN W.,	DATE 9/9/98 2:29:49 PM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 9/9/98 2:31:03 PM

DOES THIS CHANGE AFFECT SAFETY?	CHANGE VERIFIED	CNS INCORPORATED	CHANGE NUMBER
☐ YES ☑ NO	CM CONTRACTOR	CM CONTRACTOR	99-622
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

TEMPORARY

1. REQUESTER: GREGORY L HUMPHREYS 2. TTR NO.: S20-CM-98

3. DATE: 11-16-98 4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: Modify PLC-CoProcessor Code to prevent overloading the PLC CommPC with data (and thus dropping PLC data logged on PCS).

6. BASIC DESCRIPTION/JUSTIFICATION:

On occasion, one or more PLC's have I/O points that "chatter" (e.g. Arc Sector Pitch "within Limits" Null circuit).
This condition needs to be identified and filtered out by the CoProcessor code so that the CommPC will not be flooded (overLoaded).

7. REFERENCES/ATTACHMENTS:

(Code listing to be provided after testing.)

8. SCHEDULE: 11/17/98

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☐
SAR	☐	☐
D-6	☐	☐
RECERTIFICATION	☐	☐
DWG'S	☐	☐
SOFTWARE (PLC-CoProcessor)	☑	☐
AIP-29	☐	☐

OTHERS

TEST NO.

9. SPECIAL INSTRUCTIONS:

I will need to trigger the problem (e.g. with the Arc Sector) in order to test if the code mods. work properly.

FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): HUMPHREYS - FSED SUPPORT

SHELDON - ELECTRICAL

12. FSH REVIEW: [signature] DATE: 11/16/98

13. NTF MANAGER APPROVAL: [signature] for JSH DATE: 11/16/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): [signature] DATE: 11/18/98

DRAWINGS: DATE:

REQUESTER: DATE:

AREA MONITOR: DATE:

15. TTR CLOSED: FSH APPROVAL: [signature] DATE: 11/19/98

DISTRIBUTION: HILL, BOYLES, HUMPHREYS, SHELDON, HOWARD, T. SMITH, KILGORE

1. REQUESTER: T. POPERNACK

2. TTR NO.: 530.52-(21)-98

3. DATE: 11/13/98

4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: SILENCE ALARMS FROM BAD CHANNELS ON PCS

6. BASIC DESCRIPTION/JUSTIFICATION:

BAD THERMO COUPLES CREATING PCS ALARMS.

7. REFERENCES/ATTACHMENTS:

ATTACHED LISTING

8. SCHEDULE: 12/1/98

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

CNS ISSUED ☐ ____

FORM 69 ☐ ____

SPE ☐ ____

9. SPECIAL INSTRUCTIONS:

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): CALSPAN - TEST OPERATIONS

12. FSH REVIEW: Thom Poperneck DATE: 11/13/98

13. NTF MANAGER APPROVAL: Thom Poperneck for JSH DATE: 11/16/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): _____ DATE: _____

DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

15. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

DISTRIBUTION: HILL, BOYLES, PARASKA, KILGORE, T. SMITH, HOWARD

Control Table

11/13/98 7:42

Transducers Reading Bad on 11/13/98 JOM

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel
Bad 1	2	Two Zone Control Bottom	0	0	50	1	103	1500	-280	3	US NS CONTRACTION (Bottom)	TE1080-1
Bad 2	3	Two Zone Control Top	0	1	50	1	108	1500	-280	6	US NS CONTRACTION (Top)	TE1080-2
3	1	One In/One Out	0	2	50	1	112	1500	-280	12	US NS CONTRACTION ROD	TE1080-3
4	1	One In/One Out	0	3	50	1	116	1500	-280	15	US NS CONTRACTION ROD	TE1080-4
5	2	Two Zone Control Bottom	0	4	50	1	248	1500	-280	100	US FS CONTRACTION (Bottom)	TE1180-1
6	3	Two Zone Control Top	0	5	50	1	258	1500	-280	7	US FS CONTRACTION (Top)	TE1180-2
7	1	One In/One Out	0	6	50	1	264	1500	-280	116	FS CONTRACTION ROD	TE1180-3
8	1	One In/One Out	0	7	50	1	245	1500	-280	121	US FS CONTRACTION ROD	TE1180-4
Bad 9	1	One In/One Out	1	0	50	1	102	1500	-280	2	US NS LIFT	TE1060-1
10	1	One In/One Out	1	1	50	1	115	1500	-280	14	US NS LIFT ROD	TE1060-3
11	1	One In/One Out	1	2	50	1	247	1500	-280	99	US FS LIFT	TE1160-1
12	1	One In/One Out	1	3	50	1	265	1500	-280	117	US FS LIFT ROD	TE1160-3
13	1	One In/One Out	1	4	50	1	101	1500	-280	1	US NS SWING	TE1040-1
14	1	One In/One Out	1	5	50	1	111	1500	-280	11	US NS SWING ROD	TE1040-3
15	1	One In/One Out	1	6	50	1	246	1500	-280	98	US FS SWING	TE1140-1
16	1	One In/One Out	1	7	50	1	113	1500	-280	13	US NS SWING ROD	TE1140-3
17	1	One In/One Out	2	0	50	1	104	1500	-280	4	US NS TOP DOG #1	TE1000-1
18	1	One In/One Out	2	1	50	1	120	1500	-280	19	US DOG #1 ROD	TE1000-3
19	1	One In/One Out	2	2	50	1	254	1500	-280	106	US FS TOP DOG #1	TE1100-1
20	1	One In/One Out	2	3	50	1	121	1500	-280	20	US DOG #2 ROD	TE1100-3
21	1	One In/One Out	2	4	50	1	255	1500	-280	107	US FS BTM DOG #3	TE1107-1
22	1	One In/One Out	2	5	50	1	122	1500	-280	21	US DOG #3 ROD	TE1107-3
23	1	One In/One Out	2	6	50	1	105	1500	-280	5	US NS BTM DOG #4	TE1007-1
24	1	One In/One Out	2	7	50	1	123	1500	-280	22	US DOG #4 ROD	TE1007-3
25	2	Two Zone Control Bottom	3	0	50	1	168	1500	-280	46	DS NS DIFFUSER (Bottom)	TE1090-1
26	3	Two Zone Control Top	3	1	50	1	179	1500	-280	9	DS NS DIFFUSER (Top)	TE1090-2
27	1	One In/One Out	3	2	50	1	190	1500	-280	68	DS NS DIFFUSER ROD	TE1090-3
28	1	One In/One Out	3	3	50	1	185	1500	-280	63	DS NS DIFFUSER ROD	TE1090-4
29	2	Two Zone Control Bottom	3	4	50	1	251	1500	-280	103	DS FS DIFFUSER (Bottom)	TE1190-1
30	3	Two Zone Control Top	3	5	50	1	261	1500	-280	10	DS FS DIFFUSER (Top)	TE1190-2
31	1	One In/One Out	3	6	50	1	191	1500	-280	69	DS FS DIFFUSER ROD	TE1190-3
Bad 32	1	One In/One Out	3	7	50	1	192	1500	-280	70	DS FS DIFFUSER ROD	TE1190-4
33	1	One In/One Out	4	0	50	1	167	1500	-280	45	DS NS LIFT	TE1070-1
34	1	One In/One Out	4	1	50	1	188	1500	-280	66	DS NS LIFT ROD	TE1070-3
35	1	One In/One Out	4	2	50	1	250	1500	-280	102	DS FS LIFT	TE1170-1
36	1	One In/One Out	4	3	50	1	266	1500	-280	118	DS FS LIFT ROD	TE1170-3

Control Table

11/13/98 7:42 AM

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel	Field Box
37	1	One In/One Out	4	4	50	1	166	1500	-280	44	DS NS SWING	TE1050-1	14
Bad 38	1	One In/One Out	4	5	50	1	182	1500	-280	60	DS NS SWING ROD	TE1050-3	14
39	1	One In/One Out	4	6	50	1	249	1500	-280	101	DS FS SWING	TE1150-1	11
40	1	One In/One Out	4	7	50	1	183	1500	-280	61	DS FS SWING ROD	TE1150-3	14
41	1	One In/One Out	5	0	50	1	252	1500	-280	104	DS FS TOP DOG #1	TE1120-1	11
42	1	One In/One Out	5	1	50	1	262	1500	-280	0	DS FS TOP DOG #1	TE1120-2	11
43	1	One In/One Out	5	2	50	1	169	1500	-280	47	DS NS TOP DOG #2	TE1020-1	14
44	1	One In/One Out	5	3	50	1	193	1500	-280	71	DS DOG #2 ROD	TE1020-3	14
45	1	One In/One Out	5	4	50	1	170	1500	-280	48	DS NS BTM DOG #3	TE1027-1	14
46	1	One In/One Out	5	5	50	1	196	1500	-280	74	DS DOG #3 ROD	TE1027-3	14
47	1	One In/One Out	5	6	50	1	253	1500	-280	105	DS FS BTM DOG #4	TE1127-1	11
Bad 48	1	One In/One Out	5	7	50	1	195	1500	-280	73	DS DOG #4 ROD	TE1127-3	14
49	1	One In/One Out	6	0	50	1	283	1500	-280	150	NS TOP RE-ENTRY FLAP	TE1440-1	11
50	1	One In/One Out	6	1	50	1	291	1500	-280	158	FS TOP TS WALL	TE1820-1	11
51	1	One In/One Out	6	2	50	1	285	1500	-280	152	FS TOP RE-ENTRY FLAP	TE1540-1	11
52	1	One In/One Out	6	3	50	1	290	1500	-280	23	NS TOP TS WALL	TE1800-2	11
53	1	One In/One Out	6	4	50	1	218	1500	-280	80	NS BTM FLAP	TE1460-1	14
54	1	One In/One Out	6	5	50	1	224	1500	-280	86	NS BTM TS WALL	TE1840-1	14
55	1	One In/One Out	6	6	50	1	222	1500	-280	84	FS BTM FLAP	TE1560-1	14
56	1	One In/One Out	6	7	50	1	226	1500	-280	88	FS BTM TS WALL	TE1860-1	14
57	1	One In/One Out	7	0	100	1	473	1500	-280	91	ARCSECU_DWNSTRM_BEAR_R	TE2345	23
58	1	One In/One Out	7	1	50	1	279	1500	-280	146	NS TOP MOD SUP WALL	TE1400-1	11
59	1	One In/One Out	7	2	100	1	475	1500	-280	108	ARCSECU_DWNSTRM_BEAR_R	TE2347	23
60	1	One In/One Out	7	3	50	1	281	1500	-280	148	FS TOP MOD SUP WALL	TE1500-1	11
61	1	One In/One Out	7	4	50	1	214	1500	-280	76	NS BTM MOD SUP WALL	TE1422-1	14
62	1	One In/One Out	7	5	100	1	171	1500	-280	49	NS US PLEN DR LK MTR	TE1200	14
63	1	One In/One Out	7	6	50	1	172	1500	-280	50	NS PLEN DR TRAVEL MTR	TE1201	14
64	1	One In/One Out	7	7	50	1	216	1500	-280	78	FS BTM MOD SUP WALL	TE1522-1	14
65	1	One In/One Out	8	0	100	1	173	1500	-280	51	NS DS PLEN DR LK MTR	TE1202	14
66	1	One In/One Out	8	1	50	1	278	1500	-280	145	FS TS SIDEWALL	TE1330	11
67	1	One In/One Out	8	2	50	1	134	1500	-280	24	NS TS SIDEWALL	TE1230	10
68	1	One In/One Out	8	3	50	1	184	1500	-280	62	PITCH ROD HOUSING	TE1615	14
69	1	One In/One Out	8	4	50	1	143	1500	-280	33	NS TOP CORNER FILLET	TE1240-1	10
70	1	One In/One Out	8	5	50	1	228	1500	-280	90	PITCH LOCK	TE1621-1	14
71	1	One In/One Out	8	6	50	1	147	1500	-280	37	FS TOP CORNER FILLET	TE1340-1	10
72	1	One In/One Out	8	7	100	1	145	1500	-280	35	NS BTM CORNER FILLET	TE1250-1	10

Control Table

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel
73	1	One In/One Out	9	0	100	1	149	1500	-280	39	FS BTM CORNER FILLET	TE1350-1
74	1	One In/One Out	9	1	100	1	135	1500	-280	25	US NS TS SIDEWALL LOCK	TE1210-1
75	1	One In/One Out	9	2	100	1	137	1500	-280	27	DS NS TS SIDEWALL LOCK	TE1220-1
76	1	One In/One Out	9	3	100	1	139	1500	-280	29	US FS TS SIDEWALL LOCK	TE1310-1
77	1	One In/One Out	9	4	100	1	174	1500	-280	52	FS US PLEN DR LK MTR	TE1300
78	1	One In/One Out	9	5	100	1	141	1500	-280	31	DS FS TS SIDEWALL LOCK	TE1320-1
79	1	One In/One Out	9	6	50	1	175	1500	-280	53	FS PLEN DR TRAVEL MTR	TE1301
80	1	One In/One Out	9	7	100	1	176	1500	-280	144	FS DS PLEN DR LK MTR	TE1302
81	1	One In/One Out	10	6	50	1	425	1500	-280	208	IGV CYL TOP MONITOR	TE2212
82	1	One In/One Out	10	7	50	1	423	1500	-280	206	IGV CYL BOT CONT	TE2210
83	6	Nacelle Heaters Control	10	3	900	1	377	900	-280	227	US NAC CKT #3 24KW ELE.	TE2235
84	7				125	1	418	125	-280	201	XFER CASE TOP O BD	TE2205
85	7				125	1	419	125	-280	202	XFER CASE TOP I BD	TE2206
86	7				125	1	417	125	-280	200	IGV AREA TOP FREE AIR	TE2203
87	7				125	1	400	125	-280	212	IGV CYL BOT MONITOR	TE2216
88	7				125	1	401	125	-280	213	IGV RING TOP	TE2217
89	7				125	1	376	125	-280	226	TE2206 BACKUP	TE2233
90	10	Watch Dog Time Out	10	0	175	1	327	190	-280	149	US ROLL BRNG	TE1708-8
91	11				175	1	101	190	-280	1	US NS SWING	TE1040-1
92	11				175	1	102	190	-280	2	US NS LIFT	TE1060-1
93	11				175	1	103	190	-280	3	US NS CONTRACTION (Bottom)	TE1080-1
94	11				175	1	104	190	-280	4	US NS TOP DOG #1	TE1000-1
95	11				175	1	105	190	-280	5	US NS BTM DOG #4	TE1007-1
96	11				175	1	108	190	-280	6	US NS CONTRACTION (Top)	TE1080-2
97	11				175	1	111	190	-280	11	US NS SWING ROD	TE1040-3
98	11				175	1	112	190	-280	12	US NS CONTRACTION ROD	TE1080-3
99	11				175	1	113	190	-280	13	US NS SWING ROD	TE1140-3
100	11				175	1	115	190	-280	14	US NS LIFT ROD	TE1060-3
101	11				175	1	116	190	-280	15	US NS CONTRACTION ROD	TE1080-4
102	11				175	1	120	190	-280	19	US DOG #1 ROD	TE1000-3
103	11				175	1	121	190	-280	20	US DOG #2 ROD	TE1100-3
104	11				175	1	122	190	-280	21	US DOG #3 ROD	TE1107-3
105	11				175	1	123	190	-280	22	US DOG #4 ROD	TE1007-3
106	11				175	1	134	190	-280	24	NS TS SIDEWALL	TE1230
107	11				175	1	135	190	-280	25	US NS TS SIDEWALL LOCK	TE1210-1
108	11				175	1	137	190	-280	27	DS NS TS SIDEWALL LOCK	TE1220-1

Control Table

11/13/98 7:42 AM

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel	Field Box
109	11				175	1	139	190	-280	29	US FS TS SIDEWALL LOCK	TE1310-1	16
110	11				175	1	141	190	-280	31	DS FS TS SIDEWALL LOCK	TE1320-1	16
111	11				175	1	143	190	-280	33	NS TOP CORNER FILLET	TE1240-1	16
112	11				175	1	145	190	-280	35	NS BTM CORNER FILLET	TE1250-1	16
113	11				175	1	147	190	-280	37	FS TOP CORNER FILLET	TE1340-1	16
114	11				175	1	149	190	-280	39	FS BTM CORNER FILLET	TE1350-1	16
115	11				175	1	166	190	-280	44	DS NS SWING	TE1050-1	14
116	11				175	1	167	190	-280	45	DS NS LIFT	TE1070-1	14
117	11				175	1	168	190	-280	46	DS NS DIFFUSER (Bottom)	TE1090-1	14
118	11				175	1	169	190	-280	47	DS NS TOP DOG #2	TE1020-1	14
119	11				175	1	170	190	-280	48	DS NS BTM DOG #3	TE1027-1	14
120	11				175	1	171	190	-280	49	NS US PLEN DR LK MTR	TE1200	14
121	11				175	1	172	190	-280	50	NS PLEN DR TRAVEL MTR	TE1201	14
122	11				175	1	173	190	-280	51	NS DS PLEN DR LK MTR	TE1202	14
123	11				175	1	174	190	-280	52	FS US PLEN DR LK MTR	TE1300	14
124	11				175	1	175	190	-280	53	FS PLEN DR TRAVEL MTR	TE1301	14
125	11				175	1	176	190	-280	144	FS DS PLEN DR LK MTR	TE1302	14
126	11				175	1	179	190	-280	9	DS NS DIFFUSER (Top)	TE1090-2	14
127	11				175	1	182	190	-280	60	DS NS SWING ROD	TE1050-3	14
128	11				175	1	183	190	-280	61	DS FS SWING ROD	TE1150-3	14
129	11				175	1	184	190	-280	62	PITCH ROD HOUSING	TE1615	14
130	11				175	1	185	190	-280	63	DS NS DIFFUSER ROD	TE1090-4	14
131	11				175	1	188	190	-280	66	DS NS LIFT ROD	TE1070-3	14
132	11				175	1	190	190	-280	68	DS NS DIFFUSER ROD	TE1090-3	14
133	11				175	1	191	190	-280	69	DS FS DIFFUSER ROD	TE1190-3	14
134	11				175	1	192	190	-280	70	DS FS DIFFUSER ROD	TE1190-4	14
135	11				175	1	193	190	-280	71	DS DOG #2 ROD	TE1020-3	14
136	11				175	1	195	190	-280	73	DS DOG #4 ROD	TE1127-3	14
137	11				175	1	196	190	-280	74	DS DOG #3 ROD	TE1027-3	14
138	11				175	1	214	190	-280	76	NS BTM MOD SUP WALL	TE1422-1	14
139	11				175	1	216	190	-280	78	FS BTM MOD SUP WALL	TE1522-1	14
140	11				175	1	218	190	-280	80	NS BTM FLAP	TE1460-1	14
141	11				175	1	222	190	-280	84	FS BTM FLAP	TE1560-1	14
142	11				175	1	224	190	-280	86	NS BTM TS WALL	TE1840-1	14
143	11				175	1	226	190	-280	88	FS BTM TS WALL	TE1860-1	14
144	11				175	1	228	190	-280	90	PITCH LOCK	TE1621-1	14

Control Table

11/13/98 7:42 AM

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel	Field Box
145	11				175	1	245	190	-280	121	US FS CONTRACTION ROD	TE1180-4	11
146	11				175	1	246	190	-280	98	US FS SWING	TE1140-1	11
147	11				175	1	247	190	-280	99	US FS LIFT	TE1160-1	11
148	11				175	1	248	190	-280	100	US FS CONTRACTION (Bottom)	TE1180-1	11
149	11				175	1	249	190	-280	101	DS FS SWING	TE1150-1	11
150	11				175	1	250	190	-280	102	DS FS LIFT	TE1170-1	11
151	11				175	1	251	190	-280	103	DS FS DIFFUSER (Bottom)	TE1190-1	11
152	11				175	1	253	190	-280	105	DS FS BTM DOG #4	TE1127-1	11
153	11				175	1	254	190	-280	106	US FS TOP DOG #1	TE1100-1	11
154	11				175	1	255	190	-280	107	US FS BTM DOG #3	TE1107-1	11
155	11				175	1	258	190	-280	7	US FS CONTRACTION (Top)	TE1180-2	11
156	11				175	1	261	190	-280	10	DS FS DIFFUSER (Top)	TE1190-2	11
157	11				175	1	264	190	-280	116	FS CONTRACTION ROD	TE1180-3	11
158	11				175	1	265	190	-280	117	US FS LIFT ROD	TE1160-3	11
159	11				175	1	266	190	-280	118	DS FS LIFT ROD	TE1170-3	11
160	11				175	1	278	190	-280	145	FS TS SIDEWALL	TE1330	11
161	11				175	1	279	190	-280	146	NS TOP MOD SUP WALL	TE1400-1	11
162	11				175	1	281	190	-280	148	FS TOP MOD SUP WALL	TE1500-1	11
163	11				175	1	283	190	-280	150	NS TOP RE-ENTRY FLAP	TE1440-1	11
164	11				175	1	285	190	-280	152	FS TOP RE-ENTRY FLAP	TE1540-1	11
165	11				175	1	290	190	-280	23	NS TOP TS WALL	TE1800-2	11
166	11				175	1	291	190	-280	158	FS TOP TS WALL	TE1820-1	11
167	11				175	1	313	190	-280	135	DS ROLL BRNG	TE1706-1	11
168	11				175	1	314	190	-280	153	DS ROLL BRNG	TE1706-2	11
169	11				175	1	315	190	-280	137	DS ROLL BRNG	TE1706-3	11
170	11				175	1	316	190	-280	138	DS ROLL BRNG	TE1706-4	11
Bad 171	11				175	1	318	190	-280	154	ROLL MOTOR	TE1704-2	11
172	11				175	1	320	190	-280	124	US ROLL BRNG	TE1708-1	11
173	11				175	1	321	190	-280	0	US ROLL BRNG	TE1708-2	11
Bad 174	11				175	1	322	190	-280	126	US ROLL BRNG	TE1708-3	11
Bad 175	11				175	1	323	190	-280	0	US ROLL BRNG	TE1708-4	11
176	11				175	1	324	190	-280	128	US ROLL BRNG	TE1708-5	11
177	11				175	1	325	190	-280	0	US ROLL BRNG	TE1708-6	11
178	11				175	1	326	190	-280	130	US ROLL BRNG	TE1708-7	11
179	11				175	1	328	190	-280	132	US ROLL BRNG	TE1708-9	11
180	11				175	1	329	190	-280	151	US ROLL BRNG	TE1708-10	11

Control Table

11/13/98 7:42 AM

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel	Field Box
181	11				175	1	330	190	-280	134	US ROLL BRNG	TE1708-11	11
182	11				175	1	376	190	-280	226	TE2206 BACKUP	TE2233	22
183	11				700	1	377	900	-280	227	US NAC CKT #3 24KW ELE.	TE2235	22
184	11				175	1	380	190	-280	230	US NS NAC STR ZN#1	TE2261	22
185	11				175	1	382	190	-280	232	US NS NAC STR ZN#3	TE2265	22
186	11				175	1	384	190	-280	234	US NS NAC STR ZN#4	TE2268	22
187	11				175	1	385	190	-280	235	US NS NAC STR ZN#5	TE2270	22
188	11				175	1	387	190	-280	237	US NS NAC STR ZN#6	TE2273	22
189	11				175	1	389	190	-280	239	US FS NAC STR ZN#1	TE2281	22
190	11				175	1	390	190	-280	240	US FS NAC STR ZN#2	TE2283	22
191	11				175	1	391	190	-280	241	US FS NAC STR ZN#3	TE2285	22
192	11				175	1	393	190	-280	243	US FS NAC STR ZN#4	TE2288	22
193	11				175	1	394	190	-280	244	US FS NAC STR ZN#5	TE2290	22
194	11				175	1	396	190	-280	246	US FS NAC STR ZN#6	TE2293	22
195	11				175	1	400	190	-280	212	IGV CYL BOT MONITOR	TE2216	22
196	11				175	1	401	190	-280	213	IGV RING TOP	TE2217	22
197	11				175	1	417	190	-280	200	IGV AREA TOP FREE AIR	TE2203	22
198	11				175	1	418	190	-280	201	XFER CASE TOP O BD	TE2205	22
199	11				175	1	419	190	-280	202	XFER CASE TOP I BD	TE2206	22
200	11				175	1	423	190	-280	206	IGV CYL BOT CONT	TE2210	22
201	11				175	1	425	190	-280	208	IGV CYL TOP MONITOR	TE2212	22
202	11				175	1	473	190	-280	91	ARCSECU_DWNSTRM_BEAR_F	TE2345	23
203	11				175	1	475	190	-280	108	ARCSECU_DWNSTRM_BEAR_F	TE2347	23
204	11				175	1	439	190	-280	30	INNER BALANCE RING 12 O'CLK	TE2401	23
205	11				175	1	440	190	-280	32	INNER BALANCE RING 3 O'CLK	TE2402	23
206	11				175	1	441	190	-280	34	INNER BALANCE RING 6 O'CLK	TE2403	23
207	11				175	1	442	190	-280	36	INNER BALANCE RING 9 O'CLK	TE2404	23
208	11				175	1	443	190	-280	38	OUTER BALANCE RING 6 O'CLK	TE2386	23
209	11				175	1	444	190	-280	40	OUTER BALANCE RING 12 O'CL	TE2392	23
210	11				175	1	445	190	-280	43	BALANCE DRIVE GEAR BOX TC	TE2390	23
211	11				175	1	446	190	-280	54	INNER BALANCE BEARING	TE2405	23
212	11				175	1	447	190	-280	55	OUTER BALANCE BEARING 6 O	TE2397	23
213	11				175	1	448	190	-280	56	CONVECTION HEATER TEMP	TE2382	23
214	11				175	1	449	190	-280	57	MOTOR GEAR BOX OIL TEMP.	TE2389	23
215	11				175	1	450	190	-280	58	GEAR BOX OIL TEMPERATURE	TE2388	23
216	11				175	1	252	190	-280	104	DS FS TOP DOG #1	TE1120-1	11

Control Table

11/13/98 7:42 AM

Control Number	Type		Port	Channel	Set Point	Parameter Two	Kaye Channe	Max Range	Min Range		Temperature	Channel
217	11				175	1	262	190	-280	0	DS FS TOP DOG #1	TE1120-2
218	12	Roll	10	5	150	1	320	150	-280	124	US ROLL BRNG	TE1708-1
219	7				150	1	321	150	-280	0	US ROLL BRNG	TE1708-2
Bad 220	7				150	1	322	150	-280	126	US ROLL BRNG	TE1708-3
Bad 221	7				150	1	323	150	-280	0	US ROLL BRNG	TE1708-4
222	7				150	1	324	150	-280	128	US ROLL BRNG	TE1708-5
223	7				150	1	325	150	-280	0	US ROLL BRNG	TE1708-6
224	7				150	1	326	150	-280	130	US ROLL BRNG	TE1708-7
225	7				150	1	327	150	-280	149	US ROLL BRNG	TE1708-8
226	7				150	1	328	150	-280	132	US ROLL BRNG	TE1708-9
227	7				150	1	329	150	-280	151	US ROLL BRNG	TE1708-10
228	7				150	1	330	150	-280	134	US ROLL BRNG	TE1708-11
229							100					
230							100					
231							100					
232							100					

TCM-20424

1. REQUESTER: GREGORY L HUMPHREYS 2. TTR NO.: S20-011-98

3. DATE: 11-16-98 4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: Modify PLC-CoProcessor Code to prevent overloading the PLC CommPC with data (and thus dropping PLC data logged on PCS).

6. BASIC DESCRIPTION/JUSTIFICATION:

On occasion, one or more PLC's have I/O points that "chatter" (e.g. Arc Sector Pitch "within Limits" Null circuit).
This condition needs to be identified and filtered out by the CoProcessor code so that the CommPC will not be flooded (overLoaded).

7. REFERENCES/ATTACHMENTS:

(Code listing to be provided after testing.)

8. SCHEDULE: 11/17/98

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☐
SAR	☐	☐
D-6	☐	☐
RECERTIFICATION	☐	☐
DWG'S	☐	☐
SOFTWARE (PLC-CoProcessor)	☑	☐
AIP-29	☐	☐

OTHERS

TEST NO.

FSH TRACKING

CNS ISSUED

☐ FORM 69

☐ SPE

9. SPECIAL INSTRUCTIONS:

I will need to trigger the problem (e.g. with the Arc Sector) in order to test if the code mods. work properly.

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): HUMPHREYS - FSED SUPPORT

SHELDON - ELECTRICAL

12. FSH REVIEW: Thomas Powell DATE: 11/16/98

13. NTF MANAGER APPROVAL: Thomas Powell for JSH DATE: 11/16/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): DATE:

DRAWINGS: DATE:

REQUESTER: DATE:

AREA MONITOR: DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, BOYLES, HUMPHREYS, SHELDON, HOWARD, T. SMITH, KILGORE

L. Smith

1. REQUESTER: George Sydnor	2. TTR NO.: S/2-026-98
3. DATE: 11/17/98	4. CNS NO.: 99-685

NTF

TASK/TEST REQUEST

5. TASK/TEST: Add vendor dwgs for facility baseline list.

6. BASIC DESCRIPTION/JUSTIFICATION:
Dwgs for switchgear, harmonic filter, & MCC3. need. to be included with drive system drawing records.

7. REFERENCES/ATTACHMENTS:
Drawing hard copies & file disk.

~~1/1/99~~ 1/22/99

8. SCHEDULE: ~~AS TIME IS AVAILABLE~~

DOC. IMPACT DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☒
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.		

9. SPECIAL INSTRUCTIONS:
Post Test III Maintenance

FSH TRACKING

☑	CNS ISSUED 11/20/98
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR:

11. TASK/TEST LEADER(S): Cabran - Documentation
Howard - Electrical

12. FSH REVIEW: [signature] DATE: 11/17/98

13. NTF MANAGER APPROVAL: [signature] DATE: 11/17/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: Hill, T. Smith, Howard, Wright, Sydnor, Parasra

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	GEO. SYDNOR	47531	11/17/98

ACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE: Add vendor dwgs to Facility Baseline CCD list

REF TTR 512-026-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
~37 dwgs	—	see attached dwg copies from vendor	✓	

K Kennedy Dyn Corp 11/20/98

G Sydnor 11/17/98

APPROVALS

SAFETY MANAGER: P K Beasley FOR AHP	DATE: 11/20/98	FACILITY COORDINATOR: John W Nealon Act.	DATE: 11-17-98
FACILITIES CONFIGURATION COORDINATOR: Diana P. Kern	DATE: 11/20/98	FACILITY SAFETY HEAD: [signature]	DATE: 11/17/98

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☐ NO

CHANGE VERIFICATION — CM CONTRACTOR _____ DATE _____

CNS INCORPORATED — CM CONTRACTOR _____ DATE _____

CHANGE NUMBER: 99-645

SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	SYDNOR, GEORGE H.,	g.h.sydnor@larc.nasa.gov		11/20/98 8:51:00 AM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
ADD VENDOR DRAWINGS TO FACILITY BASELINE LIST AS CCD (REF. TTR S12-026-98).

NOTES:

SYDNOR, GEORGE H., 11/20/98 8:54:34 AM	USE DRAWING NUMBERS 1153843 THROUGH 1153880. ALL ARE TO BE CCD EXCEPT ONE.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

There are no Documents for this Work Package.

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MEADOR, JOHN W.,	DATE 11/20/98 8:57:15 AM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 11/20/98 8:58:55 AM
DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-645
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

3. REQUESTER: Jean Foster

1. TTR NO.: S30A.S1-0038-98

4. DATE: 11/18/1998

2. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST:
Provide send task interface for Test 111 MDOE data

6. BASIC DESCRIPTION/JUSTIFICATION:
Provide send task interface to archive data for the Modern Design of Experements portion of test 111. Data should be set up for HTTP retrieval by Microsoft Excel via the con trol room network.

8. REFERENCES/ATTACHMENTS:(PRACA NO., PFR NO., OR CI NO.)

9. PRIORITY:
1 EFFECTS CURRENT TUNNEL OP. SCH. [X]
2 EFFECTS FUTURE TUNNEL OP. SCH. [ ]
3 NO EFFECT ON TUNNEL OP. SCH. [ ]

10. SCHEDULE: 11/25/1998

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	[ ]	[X]
SAR	[ ]	[X]
D-6	[ ]	[X]
RECERTIFICATION	[ ]	[X]
DWG'S	[ ]	[X]
SOFTWARE	[X]	[ ]
AIP-29	[ ]	[X]
OTHERS		
TEST NO.	111 -	

11. SPECIAL INSTRUCTIONS:
Post Test 110 maint.

12 FSH TRACKING
CNS ISSUED [ ]
FORM 69 [ ]
SPE [ ]

13. TASK AREA AND MONITOR: Data Systems - Boyles

14. TASK/TEST LEADER(S): Wyle Software - Asay, Calspan software - Masten

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS

NASA	CONTRACTOR	TOTAL

MATERIAL/PROCURMENT YES [ ] NO [X] $ TOTAL

16. FSH REVIEW: Thomas Smith DATE: 11/19/98

17. NTF MANAGER APPROVAL: S Shinn DATE: 11/19/98

19. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): DATE:

DRAWINGS: DATE:

REQUESTER: DATE:

AREA MONITOR: DATE:

20. TTR CLOSED: FSH APPROVAL: DATE:

18. DISTRIBUTION: FOSTER, HILL, BOYLES, ASAY, MASTEN, T. SMITH, DALASKA
DATE:

3. REQUESTER: ~~GEORGE SYDNOR~~ 1. TTR NO.: S12-027-98

4. DATE: 11-16-98 2. CNS NO.: 99-643

NTF

TASK/TEST REQUEST

5. TASK/TEST: Modify PLC D Code to permit Turning Gear Ops w/ Drive Enabled.

6. BASIC DESCRIPTION/JUSTIFICATION: By Allowing TG. Ops w/ Drive Enable, test operations will not have to wait for the Harmonic Filter timer, improving test productivity.

8. REFERENCES/ATTACHMENTS:(PRACA NO., PFR NO., OR CI NO.)
PLC Logic dwgs 1155835 & 1155836, 1155834

9. PRIORITY: 1 EFFECTS CURRENT TUNNEL OP. SCH. ☐
2 EFFECTS FUTURE TUNNEL OP. SCH. ☐
3 NO EFFECT ON TUNNEL OP. SCH. ☐
11-24-98

10. SCHEDULE: ~~12/15/98~~

7. DOC. IMPACT

DOC	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☐
SOFTWARE	☒	☐
AIP-29	☐	☒
OTHERS		
TEST NO.		

2 FSH TRACKING

☑ CNS ISSUED 11/18/98

☐ FORM 69

☐ SPE

11. SPECIAL INSTRUCTIONS: Replace "Drive Enable" Signal with "Drive Stop" signal (REF. 1155834)

13. TASK AREA AND MONITOR: HOWARD - ELECTRICAL

14. TASK/TEST LEADER(S): WRIGHT - DRAWINGS

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS _____ NASA _____ CONTRACTOR _____ TOTAL

MATERIAL/PROCURMENT: ☐ YES ☐ NO $_____ TOTAL

16. FSH REVIEW: [signature] DATE: 11/18/98

17. NTF MANAGER APPROVAL: [signature] DATE: 11/18/98

19. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): _____ DATE: _____

DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

20. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

18. DISTRIBUTION: HILL, T. SMITH, MCHATTON, MEADOR, JONES, KILGORE, WHITLEY, SYDNOR, HOWARD, VEGA, WRIGHT, PARASKA

DATE:

NASA Langley (Rev. October 13, 1994) NTF Form

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	Joe Vega	49163	11-17-9

FACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE

Replace "Drive Enable" permissive with "Drive Sto permissive to allow Turning Gear Ops without Harmonic Filter Timer.

REF TTR S12-027-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
1155934	—	Main Drive On-OFF-Logic	/	
1155935	A	Main Drive Turning Gear Logic	/	
1155936	-	" " " " " 2		

11/18/98

11/18/98

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
for AHP	11/18/98	Howard T. Smith	11-18-9
FACILITIES CONFIGURATION COORDINATOR	**DATE**	**FACILITY SAFETY HEAD**	**DATE**
	11/18/98		11/19/98

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☐ NO

CHANGE VERIFICATION — CM CONTRACTOR — DATE

CNS INCORPORATED — CM CONTRACTOR — DATE

CHANGE NUMBER: 99-643

SHEET / OF /

NASA Langley Form 127 (Rev. April 1987) Previous editions are obsolete. Prescribing Document LHB 1740.4

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	VEGA, JOSE A.,	j.a.vega@larc.nasa.gov	864-5180	11/18/98 10:11:07 AM

FACILITY NAME	EFFORT CODE
Nation Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
MODIFY PLC D CODE TO PERMIT TURNING GEAR OPS WITH DRIVE ENABLED.

NOTES:

VEGA, JOSE A., 11/18/98 10:16:46 AM	REFERENCE TTR S12-027-98.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

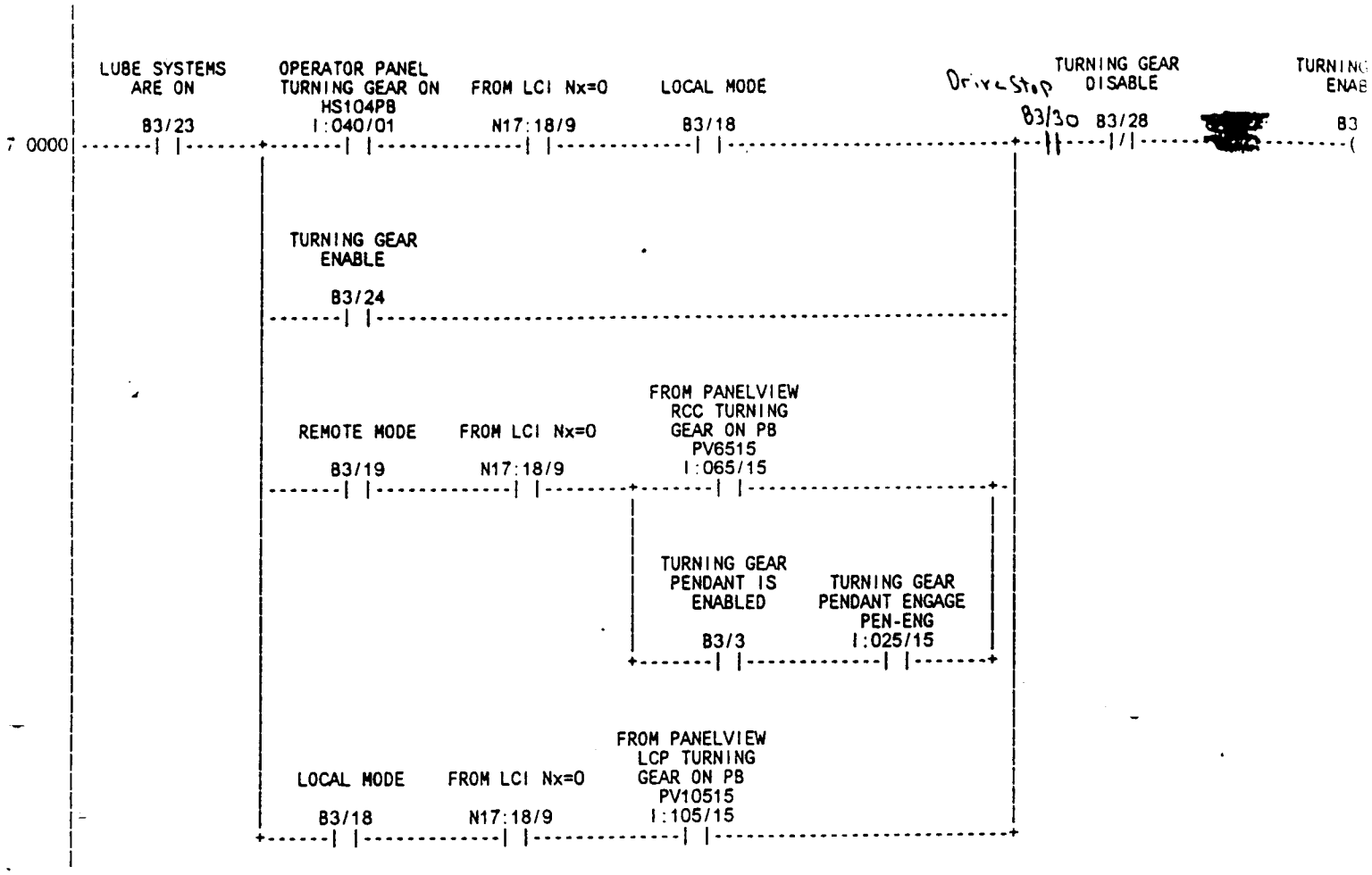
DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
LD-1155834	-	MAIN DRIVE ON-OFF LOGIC	CCD
LD-1155835	A	MAIN DRIVE TURNING GEAR LOGIC 1	CCD
LD-1155836	-	MAIN DRIVE TURNING GEAR LOGIC 2	CCD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR SMITH, THOMAS L.,	DATE 11/18/98 10:30:32 AM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 11/18/98 10:32:40 AM

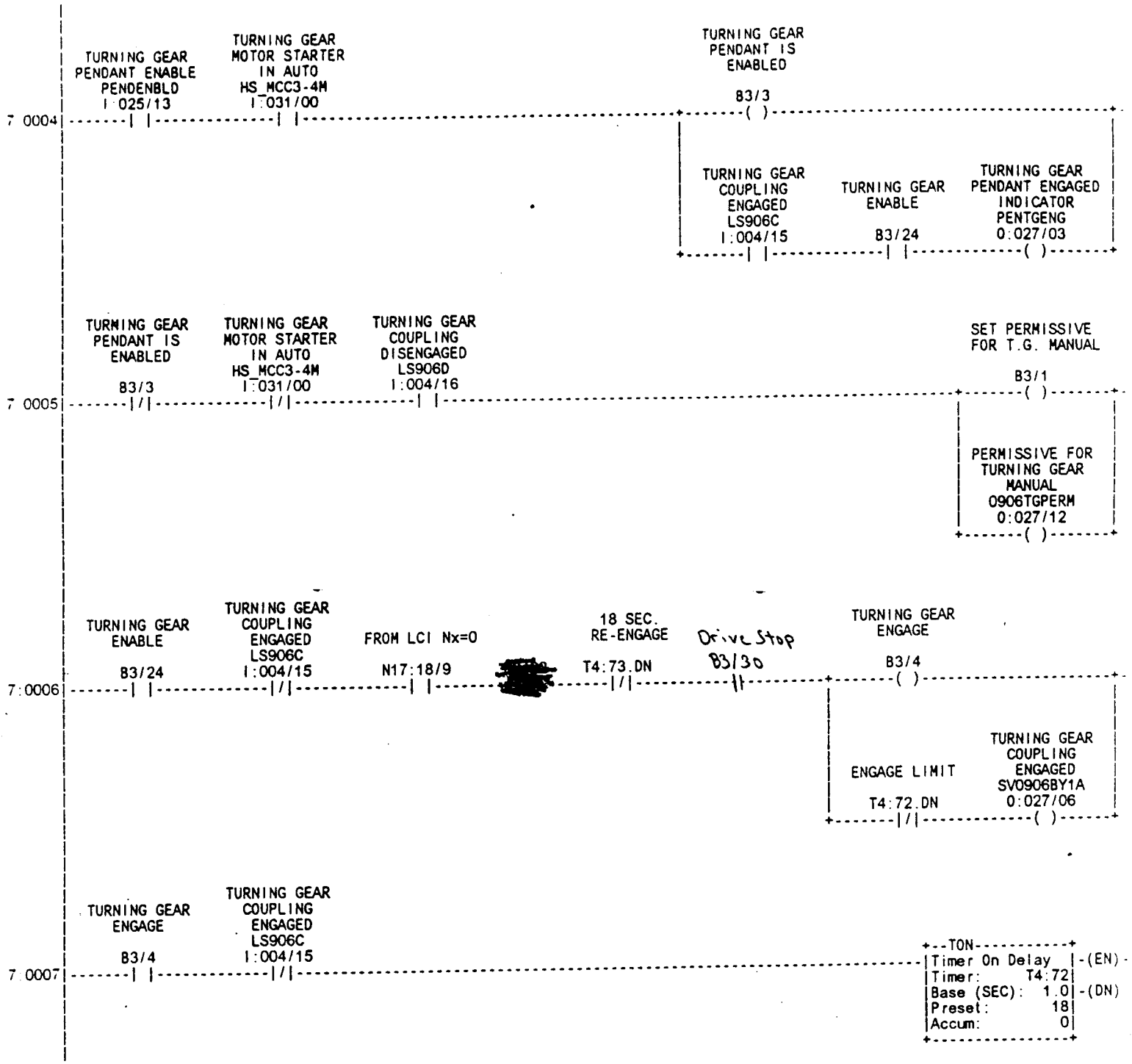
DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-643
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4



CNS 99-643

TTR 512-027-



CNS 99-643

TTR 512-02?

T. Smith

1. REQUESTER: John Meador
2. TTR NO.: 5144 - 001 - 98
3. DATE: 11-18-98
4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: Provide additional mounting hardware to "access housing clear" proximity switch mounting bracket.

6. BASIC DESCRIPTION/JUSTIFICATION:

Proximity switch bracket is secured to tunnel shell with only one fastener. This makes it difficult to position and adjust every time access housing is installed. The switch is fairly sensitive and must be secured better.

7. REFERENCES/ATTACHMENTS:

SKETCH ATTACHED

8. SCHEDULE: 11/30/98

9. SPECIAL INSTRUCTIONS:

Post test 110

Drilling site is on tunnel shell, but in a non-sensitive area. Engineering approval required.

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.	Test 111	

FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR: Tommy Smith

11. TASK/TEST LEADER(S): Ronnie Geouge 11-23-98

12. FSH REVIEW: [signature] DATE: 11/23/98

13. NTF MANAGER APPROVAL: [signature] DATE: 11/23/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): _____ DATE: _____

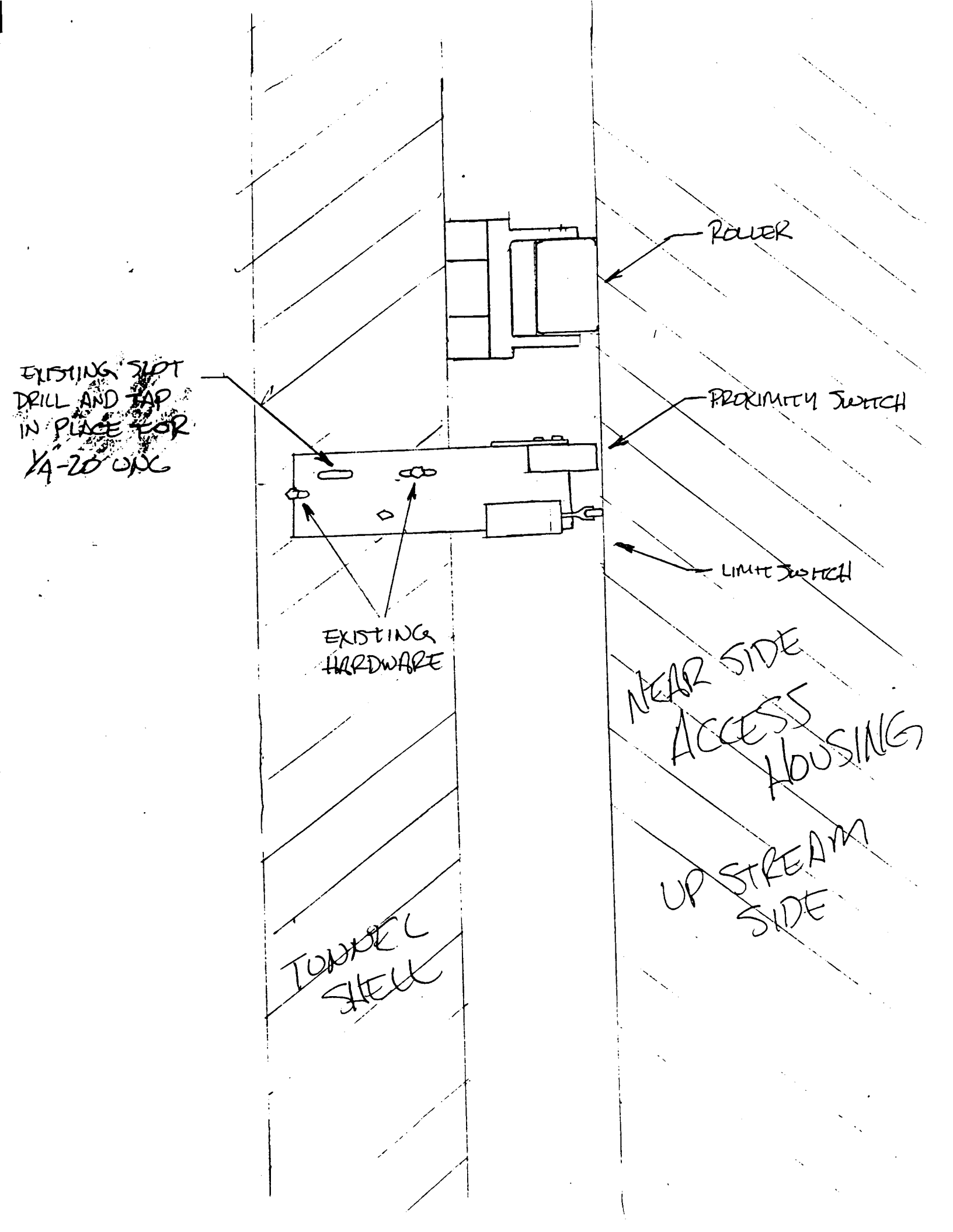
DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

15. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

DISTRIBUTION: Hill, T. Smith, Memory Cooke & Pamela Howard


ROLLER
EXISTING SLOT DRILL AND TAP IN PLACE FOR 1/4-20 UNC
PROXIMITY SWITCH
LIMIT SWITCH
EXISTING HARDWARE
NEAR SIDE ACCESS HOUSING
UP STREAM SIDE
TUNNEL SHELL

1. REQUESTER: Jerry B. Adcock
2. TTR NO.: 530.51-039-98
3. DATE: 11/18/98
4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST:
Modify ESP on-line diagnostic software to improve detection of "MODULE NOT SHIFTING" algorithm.

6. BASIC DESCRIPTION/JUSTIFICATION:

The current the algorithm compares run voltages and zero cal. voltages to assess module shifting from run mode to cal mode. This diagnostic would be extended to also check for a shift from the cal mode back to the run mode. Some optimumization needs to be accomplished to avoid erroneous indication of a module not shifting.

7. REFERENCES/ATTACHMENTS:

8. SCHEDULE: ~~1/1/99~~ 2-15-99

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

9. SPECIAL INSTRUCTIONS:
Post Test III Maint.

10. TASK AREA AND MONITOR: Data System - Boyles

11. TASK/TEST LEADER(S): Wyle - Asay
Calspan - Test Operations

12. FSH REVIEW: [signature] DATE: 11/16/98

13. NTF MANAGER APPROVAL: [signature] DATE: 11/23/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): DATE:

DRAWINGS: DATE:

REQUESTER: DATE:

AREA MONITOR: DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, BOYLES, FOSTER, MASTEN, T. SMITH, PARASKA, KILGORE

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	T. G. POPERNACK JR.	45163	11/20/98

FACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE: MODIFY FAN BEARING SEAL INSPECTION (IOP 106-B)

REF TTR S12C-004-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
IOP - 106B	12	TUNNEL POST RUN ENTRY AND INSPECTION AIR OR GOR LN_2 OPS	✓	

11/23/98

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
			11-20-98
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD	DATE
			11/20/98

DOES THIS CHANGE AFFECT SAFETY?	CHANGE VERIFICATION	CNS INCORPORATED	CHANGE NUMBER
☐ YES ☐ NO	CM CONTRACTOR _____ DATE _____	CM CONTRACTOR _____ DATE _____	99-647
			SHEET 1 OF 1

1. REQUESTER: GREGORY L. HUMPHREYS | 2. TTR NO.: S20-020-98

3. DATE: 11-19-98 | 4. CNS NO.: 99-646

NTF TASK/TEST REQUEST

5. TASK/TEST: Install Changes to PLC-Coprocessor & CommPC ocode. (see TTR S20-019-98)

6. BASIC DESCRIPTION/JUSTIFICATION:

ON SOME OCCASIONS, ONE OR MORE PLCs HAVE I/O POINTS THAT "CHATTER" (E.G. ARC SECTOR PITCH "WITHIN LIMITS" NULL CIRCUIT) THIS CONDITION NEEDS TO BE IDENTIFIED AND FILTERED OUT BY THE CO PROCESSOR CODE SO THAT THE COMM PC WILL NOT BE OVERLOADED

7. REFERENCES/ATTACHMENTS:

See attached CNS.

8. SCHEDULE: 11/30/98

9. SPECIAL INSTRUCTIONS:

POST TEST IIO MAINT.

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☑	☐
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

☑ CNS ISSUED 11/20/98

☐ FORM 69

☐ SPE

10. TASK AREA AND MONITOR: CONTROLS - C. NILES

11. TASK/TEST LEADER(S): Humphreys - FSED SUPPORT

HOWARD - ELECTRICAL REVIEW

12. FSH REVIEW: [signature] DATE: 11/20/98

13. NTF MANAGER APPROVAL: [signature] DATE: 11/20/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): _____ DATE: _____

DRAWINGS: _____ DATE: _____

REQUESTER: _____ DATE: _____

AREA MONITOR: _____ DATE: _____

15. TTR CLOSED: FSH APPROVAL: _____ DATE: _____

NASA Langley (Rev. November 18,1996) NTF Form No. 1

DISTRIBUTION: HILL, HOWARD, HUMPHREYS, T. SMITH, KILGORE, KENNEDY, PARASKA, NILES

T. Smith

1. REQUESTER: GREGORY L. HUMPHREYS
2. TTR NO.: S20-020-98
3. DATE: 11-19-98
4. CNS NO.: 99-646

NTF TASK/TEST REQUEST

5. TASK/TEST: Install Change to PLC-Coprocessor + CommPC ocode. (see TTR S20-019-98)

6. BASIC DESCRIPTION/JUSTIFICATION:
ON SOME OCCASIONS, ONE OR MORE PLCs HAVE I/O POINTS THAT "CHATTER" (E.G. ARC SECTOR PITCH "WITHIN LIMITS" NULL CIRCUIT) THIS CONDITION NEEDS TO BE IDENTIFIED AND FILTERED OUT BY THE CO PROCESSOR CODE SO THAT THE COMM PC WILL NOT BE OVERLOADED

7. REFERENCES/ATTACHMENTS:
See attached CNS.

8. SCHEDULE: 11/30/98

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☑	☐
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

☑	CNS ISSUED 11/20/98
☐	FORM 69
☐	SPE

9. SPECIAL INSTRUCTIONS:
POST TEST I/O MAINT.

10. TASK AREA AND MONITOR: CONTROLS - C. NILES

11. TASK/TEST LEADER(S): Humphreys - FSED SUPPORT
HOWARD - ELECTRICAL REVIEW

12. FSH REVIEW: [signature] DATE: 11/20/98

13. NTF MANAGER APPROVAL: [signature] DATE: 11/20/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

DISTRIBUTION: HILL, HOWARD, HUMPHREYS, T. SMITH, KILGORE, KENNEDY, PARASKA, NILES

CHANGE NOTIFICATION SHEET

BUILDING NO.	ORIGINATOR	EXTENSION	DATE
1236	GREGORY L. HUMPHREYS	x46980	11-19-98

FACILITY NAME: NTF

EFFORT CODE: 99

DESCRIPTION OF CHANGE

PLC - CoProcessor code and PLC CommPC code modified to identify and compensate for PLC I/O "chatter" (i.e. when I/O is toggling too fast for the PCs Modcomp to log if all).

REF TTR S20-020-98

FACILITY BASE LINE DOCUMENTS AFFECTED:

DOCUMENT NUMBER	REV.	TITLE	Maintained CCD	Maintained SFD
COM - PC CODE	Ø	COM - PC CODE	✓	
PLC - COPROCESSOR CODE	Ø	PLC - COPROCESSOR CODE (ADD TO SCMP-99)	✓	

APPROVALS

SAFETY MANAGER	DATE	FACILITY COORDINATOR	DATE
H.W. Beasley	11/20/98	[signature] ACE	11-20-98
FACILITIES CONFIGURATION COORDINATOR	**DATE**	**FACILITY SAFETY HEAD**	**DATE**
[signature]	11/20/98	[signature]	11/20/98

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☐ NO

CHANGE VERIFICATION — CM CONTRACTOR _____ DATE _____

CNS INCORPORATED — CM CONTRACTOR _____ DATE _____

CHANGE NUMBER: 99-646

SHEET 1 OF 1

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	HUMPHREYS, GREGORY L.,	g.l.humphreys@larc.nasa.gov		11/20/98 1:38:49 PM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
CHANGE PLC-COPROCESSOR AND PLC COMMPC CODES (REF. TTR S20-020-98).

NOTES:

HUMPHREYS, GREGORY L., 11/20/98 1:42:51 PM	THIS CHANGE IS TO IDENTIFY AND COMPENSATE FOR PLC I/O CHATTER.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

There are no Documents for this Work Package.

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MEADOR, JOHN W.,	DATE 11/20/98 1:45:38 PM
FACILITIES CONFIGURATION COORDINATOR -	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 11/20/98 1:47:14 PM
DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-646
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

1. REQUESTER: Chuck Whitley
2. TTR NO.: 512C-004-98
3. DATE: 11-20-98
4. CNS NO.: 99-642

NTF TASK/TEST REQUEST

5. TASK/TEST:
REPLACE the FAN bearing oil Seals

6. BASIC DESCRIPTION/JUSTIFICATION:
The FAN bearing oil Seals have been Severely worn/ Damaged over the past 6 months.
1. Replace the Seals
2. Establish an inspection procedure to Monitor wear and damage.
3. Establish a New Seal oiling interval.
4. Fabricate A Spare Set of Seals

7. REFERENCES/ATTACHMENTS:
Redlined IOP-106B-

8. SCHEDULE: 11-25-98

9. SPECIAL INSTRUCTIONS:
WHITLEY TO DEVELOP INSTALLATION PROCEDURE - SMALL AMOUNT OF WD-40 TO BE PUT ON SHAFT & DISCONTINUE USING LUBE OIL.
JSH

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☒	☐
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☐	☒
AIP-29	☐	☒
OTHERS		
TEST NO.		

FSH TRACKING

☑	CNS ISSUED 11/23/98
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR: T. Smith - Facility

11. TASK/TEST LEADER(S): CALSPAN - Plant Systems, Documentation
T. Smith - Tech Support

12. FSH REVIEW: Thomas Powell DATE: 11/20/98

13. NTF MANAGER APPROVAL: J Shiu DATE: 11/23/98

14. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S):		DATE:
DRAWINGS:		DATE:
REQUESTER:		DATE:
AREA MONITOR:		DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

DISTRIBUTION: HILL, T. SMITH, WHITLEY, WRIGHT, WILSON, MCHATTON, PARASILA

CHANGE NOTIFICATION SHEET

FACILITY NUMBER	ORIGINATOR	MAIL	PHONE	DATE
1236	POPERNACK, THOMAS G., JR.	t.g.popernack.jr@larc.nasa.gov	864-5163	11/23/98 2:37:49 PM

FACILITY NAME	EFFORT CODE
National Transonic Facility (NTF)	99

DESCRIPTION OF CHANGE
MODIFY FAN BEARING SEAL INSPECTION IN IOP-106B (REF. TTR S12C-004-98).

NOTES:

There are no notes for this Work Package.

FACILITY BASELINE LIST (FBL) DOCUMENTS AFFECTED:

DOCUMENT NUMBER	CURRENT REVISION	TITLE	MAINTAINED CCD / SFD
IOP-106B	12	TUNNEL POST RUN ENTRY AND INSPECTION AIR OPS OR LN2 OPS	CCD

APPROVALS

HEAD, OSFA	DATE	FACILITY COORDINATOR MEADOR, JOHN W.,	DATE 11/23/98 2:50:06 PM
FACILITIES CONFIGURATION COORDINATOR	DATE	FACILITY SAFETY HEAD POPERNACK, THOMAS G., JR.	DATE 11/23/98 2:51:46 PM

DOES THIS CHANGE AFFECT SAFETY? ☐ YES ☑ NO	CHANGE VERIFIED CM CONTRACTOR	CNS INCORPORATED CM CONTRACTOR	CHANGE NUMBER 99-647
CRITICAL ITEMS LIST AFFECTED? ☐ YES ☑ NO	DATE	DATE	SHEET OF

NASA Langley Form 127 (Rev. Jan. 1992) Previous editions may be used. Prescribing Document LHB 1740.4

1. REQUESTER: Chuck Whitley
2. TTR NO.: S18H-001-98
3. DATE: 11-20-98
4. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST: REDESIGN/Remount the Entry steps for the Cryo Chamber

6. BASIC DESCRIPTION/JUSTIFICATION:
When folded INSIDE the Cryo Chamber the entry steps CAN easily be pushed into the Model. Mount the steps ON the outside of the unit such that they cannot be folded INSIDE the unit.

7. REFERENCES/ATTACHMENTS:
LD 528388
LD 527957
LD 527949
} RedLines (NOT CCD)

8. SCHEDULE: 12-1-98

9. SPECIAL INSTRUCTIONS:
POST TEST 110 MAINTENANCE

DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☒	☐
SOFTWARE	☐	☒
AIP-29	☐	☒

OTHERS
TEST NO.

FSH TRACKING

	CNS ISSUED
☐	
☐	FORM 69
☐	SPE

10. TASK AREA AND MONITOR:
11. TASK/TEST LEADER(S): CALSPAN — PLANT Systems, Documentation

12. FSH REVIEW: DATE: 11/20/98
13. NTF MANAGER APPROVAL: DATE: 11/23/98

14. VERIFICATION OF PERFORMANCE:
TASK/TEST LEADER(S): DATE:
DRAWINGS: DATE:
REQUESTER: DATE:
AREA MONITOR: DATE:

15. TTR CLOSED: FSH APPROVAL: DATE:

DISTRIBUTION: HILL, T. SMITH, M. HATTON, WILSON, WHITLEY, WRIGHT, KARASKA

NASA Langley (Rev. November 18,1996) NTF Form No. 1

3. REQUESTER: Jean Foster

1. TTR NO.: S30A.S3-023-98

4. DATE: 11/23/1998

2. CNS NO.:

NTF TASK/TEST REQUEST

5. TASK/TEST:
Fix composite plot redisplay when edit is cancelled.

6. BASIC DESCRIPTION/JUSTIFICATION:
When edit is cancelled from a composite plot, the traces are not redisplayed. This only occurs when more than one composite type plot has been defined on the same page.

8. REFERENCES/ATTACHMENTS:(PRACA NO., PFR NO., OR CI NO.)

9. PRIORITY:
1 EFFECTS CURRENT TUNNEL OP. SCH. ☐
2 EFFECTS FUTURE TUNNEL OP. SCH. ☐
3 NO EFFECT ON TUNNEL OP. SCH. ☒

10. SCHEDULE: ~~11/25/1998~~ 1/31/99

7. DOC. IMPACT

DOC.	YES	NO
PROCEDURES	☐	☒
SAR	☐	☒
D-6	☐	☒
RECERTIFICATION	☐	☒
DWG'S	☐	☒
SOFTWARE	☒	☐
AIP-29	☐	☒

OTHERS

TEST NO.

11. SPECIAL INSTRUCTIONS:
Post Test III maint.

12 FSH TRACKING

☐	CNS ISSUED
☐	FORM 69
☐	SPE

13. TASK AREA AND MONITOR: Data Systems - Boyles

14. TASK/TEST LEADER(S): Wyle Software - Asay

15. RESOURCE REQUIREMENTS: ESTIMATE MANHOURS

NASA	CONTRACTOR	TOTAL

MATERIAL/PROCURMENT YES ☐ NO ☒ $ TOTAL

16. FSH REVIEW: Thomas Fogarty DATE: 11/25/98

17. NTF MANAGER APPROVAL: J S Main DATE: 11/30/98

19. VERIFICATION OF PERFORMANCE:

TASK/TEST LEADER(S): DATE:

DRAWINGS: DATE:

REQUESTER: DATE:

AREA MONITOR: DATE:

20. TTR CLOSED: FSH APPROVAL: DATE:

18. DISTRIBUTION: HILL, BOYLES, T. SMITH, FOSTER, ASAY, KILGORE, PARASKA.
DATE:

NASA Langley (Rev. October 13, 1994) NTF Form No. 1