07.231-91

NINE MILE POINT NUCLEAR STATION UNIT #2

OPERATING PROCEDURE

PROCEDURE NO. N2-OP-101B

# HOT STANDBY OPERATION

| APPROVALS | SIGNATURES | DATE AND INITIALS REVISION 1 | REVISION 2 | REVISION 3 |
|---|---|---|---|---|
| Operations Superintendent<br>NMPNS Unit 2<br>R. G. Smith | RGSmith | 2/17/89 RGS | | |
| Station Superintendent<br>NMPNS Unit 2<br>R. B. Abbott | RBAbbott | 2/17/89 RBA | | |
| General Superintendent<br>Nuclear Generation<br>J. L. Willis | | 2/21/89 RBA for JLW | | |

FOR INFORMATION ONLY

## Summary of Pages

Revision 1 (Effective 2/21/89 )

| Page | Date |
|---|---|
| i,1-2,5 | July 1986 |
| 3,4 | December 1989 (TCN-2) |

Periodic Review, 2/14/91, No changes

NIAGARA MOHAWK POWER CORPORATION

THIS PROCEDURE NOT TO BE USED
AFTER February 1993
SUBJECT TO PERIODIC REVIEW.

9305040151 911031
PDR ADOCK 05000410
S PDR

1

5/4/151

# TABLE OF CONTENTS



REFERENCES

NONE

N2-OP-101B

# HOT STANDBY OPERATION

## A. TECHNICAL SPECIFICATIONS

Due to the fact that most, if not all, of the Technical Specifications apply to plant operation, they are not listed individually in this procedure.

## B. SYSTEM DESCRIPTION

As hot standby affects all plant systems, individual system descriptions will not be discussed in this procedure. As hot standby is a plant condition, refer to individual operating procedures system description as required to support hot standby operation.

## C. OPERATING REQUIREMENTS

1.0 All main plant systems and their auxiliaries are required to be in operation, or in a standby condition, in accordance with respective operating procedure.

2.0 All modes of plant operation shall be in compliance of NMP-Unit 2 Technical Specification.

3.0 Discussion

3.1 It is the intent of this procedure to outline the many steps required to maintain safe reactor operation in hot standby. The sequence suggested may require deviation by the CSO and SSS to allow for the many possible existing plant conditions.

3.2 Direction for placing major equipment in and out of service will be given by the control room CSO who will record the time and status in the log books as the work is accomplished.

4.0 Continue heat/up cooldown surveillance log N2-OSP-RCS-@001 during hot standby operation.

## D. PRECAUTIONS/LIMITATIONS

1.0 Ensure that all control rod motion is done in accordance an approved control rod sequence.

2.0 Extra caution should be used when pulling control rods in the region of criticality to avoid short periods. Critical predictions should be used only as a gross estimate of the critical rod pattern since there are many calculational uncertainties in the prediction process. It should be noted that in many previous short period incidents throughout the industry the operator thought that the reactor was substantially sub-critical due to unexpectedly low SRM readings. Additionally, the "continuous withdrawal" mode shall not be used when approaching criticality. The following reactor conditions and characteristics influence the point of criticality and the rate at which it is approached:

2.1 Xenon Concentration

Xenon tends to suppress the flux in previously high-powered regions of the core (generally bottom and center). Since control rod worth is a function of the flux to which it is exposed, rod worth is diminished in high Xenon concentration regions and enhanced in other regions.

2.2 Moderator Temperature

At higher temperatures, neutrons travel further in the slowing down process; and therefore, have a greater probability of reaching and being absorbed in a control rod. This results in increased control rod worths at higher temperatures.

2.3 Control Rod Position

The zero worth of a control rod depends on its axial position as follows:

| Position | Worth |
|---|---|
| 0-4 | Low |
| 4-8 | High |
| 8-12 | Highest |
| 12-16 | High |
| 16-24 | Low |
| 24-48 | Minimal |

The first rod of a group is generally worth more than successive rods in that group.

3.0 The precautions in each of the specific procedures referenced to herein are to be adhered to.

4.0 Minimize sudden changes of reactor water level or steam flow to prevent excessive changes in reactor pressure/temperature which could cause large reactivity changes.

5.0 To minimize the feedwater nozzle thermal transient, it is not desirable to operate in hot standby without Condensate and Feedwater feed to the reactor vessel.

6.0 It is desired to maintain reactor pressure between 60 to 500 psig or 850 to 940 psig during hot standby. Reactor pressure of 60 to 500 psig is to assure main steam provides the auxiliary systems and Condensate Booster Pump reactor feed capability Reactor pressure of 850 to 940 psig is to minimize excessive differential pressure drop across the Feedwater Startup Level Control Valves (2FWS-LV55A and B). Note that with MSIV's shut or reactor pressure less than 300 psig, steam pressure is too low for the clean steam reboilers. TCN-3 TCN-3 TCN-3

7.0 When controlling RPV water level using LV137, monitor valve position, steam loads and water level to ensure the capacity of LV137 is not exceeded. Reduce steam loads, Rx power, or use LV55A(B) as required.

E. STARTUP PROCEDURE

NOTE: If the Main Steam Isolation Valves are open and the main condenser is available, exit this procedure and refer to N2-OP-101A, plant startup.

1.0 Preparation to plant startup with MSIVs shut

1.1 Verify main turbine is on turning gear per N2-OP-21.

1.2 Start clean steam reboiler and establish main turbine gland seal per N2-OP-25.

1.3 Draw condenser vacuum using mechanical vacuum pump per N2-OP-9.

1.4 At P851, verify Pressure Regulator pressure setpoint is set higher than reactor pressure and bypass valves are shut.

1.5 Start Main Steam Line warmup/pressurization per N2-OP-1 prior to opening MSIVs.

1.6 Start SJAE and Off-Gas System to maintain condenser vacuum per N2-OP-101A.

1.7 If reactor pressure is being controlled by the turbine bypass valves, initiate condenser neck spray per N2-OP-3 Section E.9.0.

1.8 Refer to N2-OP-101A to continue reactor heatup.

F. NORMAL OPERATION

NOTE: This procedure is entered from either N2-OP-101A Plant Startup or N2-OP-101C Plant Shutdown.

NOTE: When operating in hot standby, monitor the nuclear instrumentation for reactivity/power changes due to moderator temperature change, Xenon transient. Control Rod shall be moved per Control Rod Pull Sheet to compensate for these changes.

1.0 Hot Standby with Main Condenser Available

CAUTION

Observe the Precautions/Limitation Section 4.0, 5.0, 6.0 and 7.0.

1.1 To minimize the feedwater nozzle thermal duty due to on-off cold Condensate and Feedwater flow cycling, perform either of the following:

a. Adjust the Pressure Regulator pressure setpoint at P851 to the desired pressure and keep the first bypass valve 25 to 50% open.

b. Establish 150 gpm RWCU reject flow using 2WCS-FV135 per N2-OP-37.

1.2 Maintain the reactor water level.

a. Between 60 to 500 psig, verify one condensate and Condensate Booster Pump operating thru Low Pressure Low Flow Level Control Valve 2CNM-LV137 per N2-OP-3. | TCN-3

b. Between 850 to 940 psig, verify Condensate/Feedwater operating per N2-OP-3 thru High Pressure Low Flow Level Control Valve 2FWS-LV55A(B).

2.0 Hot Standby Without Main Condenser

CAUTION

If Condensate and Feedwater is restored to operation, slowly increase the reactor vessel feed to minimize the feedwater nozzle thermal transient.

2.1 If Condensate and Feedwater is not available, use one RHR loop in steam condensing mode and RCIC makeup to the reactor vessel per N2-OP-31. Operate other RHR loop in suppression pool cooling as required.

2.2 If Condensate and Feedwater is available, maintain reactor pressure between 60 to 500 psig or 850 to 940 psig. | TCN-3

a. Use one RHR loop in steam condensing mode and RCIC makeup to the reactor vessel per N2-OP-31 and N2-OP-35. Operate other RHR loop in suppression pool cooling as required.

b. Establish 150gpm RWCU reject flow to main condenser or radwaste using 2WCS-FV135 per N2-OP-37.

G. SHUTDOWN PROCEDURE

NOTE: If the Main Steam Isolation Valves are open and main condenser is available, exit this procedure and refer to N2-OP-101C, Plant Shutdown.

1.0 Shutdown Without Main Condenser

1.1 Maintain RHR in steam condensing mode and RCIC makeup to the reactor vessel per N2-OP-31 and N2-OP-35.

1.2 Insert rods per Control Rod Pull Sheet.

1.3 When reactor power is reduced to IRM Range 3 or below, insert SRM detectors to provide count rate between $10^2$ to $10^5$ CPS.

1.4 Fully insert the control rods.

1.5 Place reactor mode switch to "REFUEL" or "SHUTDOWN".

1.6 Control cooldown rate by adjusting the RHR Hx level controller per N2-OP-31.

1.7 When reactor pressure decreased to less than 128 psig, start RHR loop in Shutdown Cooling per N2-OP-31.

H. OFF NORMAL PROCEDURE

NONE

I. PROCEDURE FOR CORRECTING ALARM CONDITIONS

NONE

File Copy

97-223-91

SR // Div 1, II, III

## TABLE 3.3.7.5-1

## ACCIDENT MONITORING INSTRUMENTATION

| INSTRUMENT | REQUIRED NUMBER OF CHANNELS | MINIMUM CHANNELS OPERABLE | APPLICABLE OPERATIONAL CONDITIONS | ACTION |
|---|---|---|---|---|
| 1. Reactor Vessel Pressure ✓ | 2 | 1 | 1, 2 | 80 |
| 2. Reactor Vessel Water Level | | | | |
| a. Fuel Zone | 2 | 1 | 1, 2, 3 | 80 |
| b. Wide Range | 2 | 1 | 1, 2, 3 | 80 |
| 3. Suppression Pool Water Level | | | | |
| a. Narrow Range | 2 | 1 | 1, 2, 3 | 83 |
| b. Wide Range | 2 | 1 | 1, 2, 3 | 83 |
| 4. Suppression Pool Water Temperature | 8, 2/Quadrant | 4, 1/Quadrant | 1, 2 | 80 |
| 5. Suppression Chamber Pressure | 2 | 1 | 1, 2 | 80 |
| 6. Suppression Chamber Air Temperature | 2 | 1 | 1, 2 | 80 |
| 7. Drywell Pressure | | | | |
| a. Narrow Range | 2 | 1 | 1, 2 | 80 |
| b. Wide Range | 2 | 1 | 1, 2 | 80 |
| 8. Drywell Air Temperature | 2 | 1 | 1, 2 | 80 |
| 9. Drywell Oxygen Concentration | 2 | 1 | 1, 2 | 80 |
| 10. Drywell Hydrogen Concentration Analyzer and Monitor | 2 | 1 | 1, 2 | 80 |
| 11. Safety/Relief Valve Position Indicators* | 2/Valve | 1/Valve | 1, 2 | 80 |

TABLE 3.3.7.5-1 (Continued)

ACCIDENT MONITORING INSTRUMENTATION

| INSTRUMENT | REQUIRED NUMBER OF CHANNELS | MINIMUM CHANNELS OPERABLE | APPLICABLE OPERATIONAL CONDITIONS | ACTION |
|---|---|---|---|---|
| 12. Drywell High Range Radiation Monitors | 2 | 1 | 1, 2, 3 | 85 |
| 13. RHR Heat Exchanger Service Water Radiation Monitor | 1/Heat Exchanger | 1/Heat Exchanger | 1, 2, 3 | 81 |
| 14. Refuel Platform Area Radiation Monitor | 1 | 1 | ** | 82 |
| 15. Neutron Flux† | | | | |
| APRM | 2 | 1 | 1, 2 | 80 |
| IRM | 2 | 1 | 1, 2 | 80 |
| SRM | 2 | 1 | 1 | 80 |
| 16. Primary Containment Isolation Valve Position Indication | 1 | 1 | 1, 2 | 84 |

*Acoustic monitoring and tail pipe temperature
**When handling fuel, or components in the fuel pool or reactor cavity.
†Neutron flux indication is sufficient to meet the Operability requirement of this specification.

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-ISC-R115/001 | 4.3.7.5-1.1 | 2ISC*PT6A<br>B22-N062A<br>2ISC*PR1623A | N2-ISP-ISC-R115 | 1 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.10 | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.10 | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-CMS-Q110/001 | 4.3.7.5-1.10 | 2CMS*AE6A<br>2CMS*AE71A | N2-ISP-CMS-Q110 | 1 |
| N2-ISP-CMS-Q110/002 | 4.3.7.5-1.10 | 2CMS*AE6B<br>2CMS*AE71B | N2-ISP-CMS-Q110 | 2 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.10 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.11 | | N2-OSP-LOG-M001 | RE111 |
| N2-ISP-SVV-R102/003 | 4.3.7.5-1.11 | 2SVV*NBE222<br>2SVV*NBY222<br>2SVV*NBI222<br>2SVV*NBU222 | N2-ISP-SVV-R102 | 3 |
| N2-ISP-SVV-R102/002 | 4.3.7.5-1.11 | 2SVV*NBE221<br>2SVV*NBY221<br>2SVV*NBI221<br>2SVV*NBU221 | N2-ISP-SVV-R102 | 2 |
| N2-ISP-SVV-R102/004 | 4.3.7.5-1.11 | 2SVV*NBE223<br>2SVV*NBY223<br>2SVV*NBI223<br>2SVV*NBU223 | N2-ISP-SVV-R102 | 4 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-SVV-R102/006 | 4.3.7.5-1.11 | 2SVV*NBE225 | N2-ISP-SVV-R102 | 6 |
| | | 2SVV*NBY225 | | |
| | | 2SVV*NBI225 | | |
| | | 2SVV*NBU225 | | |
| N2-ISP-SVV-R102/008 | 4.3.7.5-1.11 | 2SVV*NBE227 | N2-ISP-SVV-R102 | 8 |
| | | 2SVV*NBY227 | | |
| | | 2SVV*NBI227 | | |
| | | 2SVV*NBU227 | | |
| N2-ISP-SVV-R102/010 | 4.3.7.5-1.11 | 2SVV*NBE229 | N2-ISP-SVV-R102 | 10 |
| | | 2SVV*NBY229 | | |
| | | 2SVV*NBI229 | | |
| | | 2SVV*NBU229 | | |
| N2-ISP-SVV-R102/012 | 4.3.7.5-1.11 | 2SVV*NBE231 | N2-ISP-SVV-R102 | 12 |
| | | 2SVV*NBY231 | | |
| | | 2SVV*NBI231 | | |
| | | 2SVV*NBU231 | | |
| N2-ISP-SVV-R102/014 | 4.3.7.5-1.11 | 2SVV*NBE233 | N2-ISP-SVV-R102 | 14 |
| | | 2SVV*NBY233 | | |
| | | 2SVV*NBU233 | | |
| | | 2SVV*NBI233 | | |
| N2-ISP-SVV-R102/016 | 4.3.7.5-1.11 | 2SVV*NBE235 | N2-ISP-SVV-R102 | 16 |
| | | 2SVV*NBU235 | | |
| | | 2SVV*NBI235 | | |
| | | 2SVV*NBY235 | | |
| N2-ISP-SVV-R102/018 | 4.3.7.5-1.11 | 2SVV*NBE237 | N2-ISP-SVV-R102 | 18 |
| | | 2SVV*NBI237 | | |
| | | 2SVV*NBU237 | | |
| | | 2SVV*NBY237 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-SVV-R102/013 | 4.3.7.5-1.11 | 2SVV*NBE232 | N2-ISP-SVV-R102 | 13 |
| | | 2SVV*NBI232 | | |
| | | 2SVV*NBY232 | | |
| | | 2SVV*NBU232 | | |
| N2-ISP-SVV-R102/011 | 4.3.7.5-1.11 | 2SVV*NBE230 | N2-ISP-SVV-R102 | 11 |
| | | 2SVV*NBY230 | | |
| | | 2SVV*NBU230 | | |
| | | 2SVV*NBI230 | | |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.11 | | N2-OSP-LOG-M001 | |
| N2-ISP-SVV-R102/009 | 4.3.7.5-1.11 | 2SVV*NBE228 | N2-ISP-SVV-R102 | 9 |
| | | 2SVV*NBU228 | | |
| | | 2SVV*NBY228 | | |
| | | 2SVV*NBI228 | | |
| N2-ISP-SVV-R102/007 | 4.3.7.5-1.11 | 2SVV*NBE226 | N2-ISP-SVV-R102 | 7 |
| | | 2SVV*NBY226 | | |
| | | 2SVV*NBI226 | | |
| | | 2SVV*NBU226 | | |
| N2-ISP-SVV-R102/005 | 4.3.7.5-1.11 | 2SVV*NBE224 | N2-ISP-SVV-R102 | 5 |
| | | 2SVV*NBY224 | | |
| | | 2SVV*NBI224 | | |
| | | 2SVV*NBU224 | | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.11 | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-SVV-R102/001 | 4.3.7.5-1.11 | 2SVV*NBE220 | N2-ISP-SVV-R102 | 1 |
| | | 2SVV*NBY220 | | |
| | | 2SVV*NBI220 | | |
| | | 2SVV*NBU220 | | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.12 | | N2-OSP-LOG-M001 | RE111 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-RSP-RMS-R106/002 | 4.3.7.5-1.12 | 2RMS*RE1B | N2-RSP-RMS-R106 | 1B |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.12 | | N2-OSP-LOG-M001 | |
| N2-RSP-RMS-R106/003 | 4.3.7.5-1.12 | 2RMS*RE1C | N2-RSP-RMS-R106 | 1C |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.12 | | N2-OSP-LOG-M001 | RE112 |
| N2-RSP-RMS-R106/004 | 4.3.7.5-1.12 | 2RMS*RE1D | N2-RSP-RMS-R106 | 1D |
| N2-RSP-RMS-R106/001 | 4.3.7.5-1.12 | 2RMS*RE1A | N2-RSP-RMS-R106 | 1A |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.13 | | N2-OSP-LOG-M001 | RE111 |
| N2-RSP-RMS-R105/002 | 4.3.7.5-1.13 | 2SWP*CAB23B<br>2SWP*RUW23B<br>2SWP*RE23B<br>2SWP*RIC1123B<br>2SWP*FIS1123B<br>2SWP*RUZ23B<br>2SWP*RR23B | N2-RSP-RMS-R105 | 23B |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.13 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.13 | | N2-OSP-LOG-M001 | RE112 |
| N2-RSP-RMS-R105/001 | 4.3.7.5-1.13 | 2SWP*CAB23A<br>2SWP*RUW23A<br>2SWP*RE23A<br>2SWP*RIC1123A<br>2SWP*FIS1123A<br>2SWP*RUZ23A<br>2SWP*RR23A | N2-RSP-RMS-R105 | 23A |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.14 | | N2-OSP-LOG-M001 | RE111 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-SVV-R102/017 | 4.3.7.5-1.11 | 2SVV*NBE236 | N2-ISP-SVV-R102 | 17 |
| | | 2SVV*NBU236 | | |
| | | 2SVV*NBI236 | | |
| | | 2SVV*NBY236 | | |
| N2-ISP-SVV-R101/001 | 4.3.7.5-1.11 | 2SVV*TE120 | N2-ISP-SVV-R101 | 1 |
| | | 2SVV-TE120 | | |
| | | 2SVV-TE121 | | |
| | | 2SVV-TE122 | | |
| | | 2SVV-TE123 | | |
| | | 2SVV-TE124 | | |
| | | 2SVV-TE125 | | |
| | | 2SVV-TE126 | | |
| | | 2SVV-TE127 | | |
| | | 2SVV-TE128 | | |
| | | 2SVV-TE129 | | |
| | | 2SVV-TE130 | | |
| | | 2SVV-TE131 | | |
| | | 2SVV-TE132 | | |
| | | 2SVV-TE133 | | |
| | | 2SVV-TE134 | | |
| | | 2SVV-TE135 | | |
| | | 2SVV-TE136 | | |
| | | 2SVV-TE137 | | |
| | | 2SVV-TRSH1614 | | |
| | | B22-R614 | | |
| N2-ISP-SVV-R102/015 | 4.3.7.5-1.11 | 2SVV*NBE234 | N2-ISP-SVV-R102 | 15 |
| | | 2SVV*NBU234 | | |
| | | 2SVV*NBI234 | | |
| | | 2SVV*NBY234 | | |

NON SAFETY RELATED - Q4 SEISMIC QUALIFIED

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.14 | | N2-OSP-LOG-M001 | RE112 |
| N2-RSP-RMS-R110/001 | 4.3.7.5-1.14 | 2RMS*RE111 | N2-RSP-RMS-R110 | |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.14 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.15.a | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.15.a | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.15.a | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.15.b | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.15.b | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.15.b | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.15.c | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.15.c | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.15.c | | N2-OSP-LOG-M001 | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-CPS-R001/001 | 4.3.7.5-1.16 | 2CPS*AOV106 | N2-OSP-CPS-R001 | |
| | | 2CPS*AOV107 | | |
| | | 2CPS*AOV109 | | |
| | | 2CPS*AOV104 | | |
| | | 2CPS*AOV105 | | |
| | | 2CPS*AOV110 | | |
| | | 2CPS*AOV111 | | |
| | | 2CPS*SOV120 | | |
| | | 2CPS*SOV122 | | |
| | | 2CPS*SOV119 | | |
| | | 2CPS*SOV121 | | |
| | | 2CPS*SOV132 | | |
| | | 2CPS*SOV133 | | |
| | | 2CPS*AOV108 | | |
| N2-OSP-WCS-R001/001 | 4.3.7.5-1.16 | 2WCS*MOV200 | N2-OSP-WCS-R001 | MOV200 |
| N2-OSP-CSH-R002/001 | 4.3.7.5-1.16 | 2CSH*AOV108 | N2-OSP-CSH-R002 | |
| | | 2CSH*MOV101 | | |
| | | 2CSH*MOV105 | | |
| | | 2CSH*MOV107 | | |
| | | 2CSH*MOV110 | | |
| | | 2CSH*MOV111 | | |
| | | 2CSH*MOV112 | | |
| | | 2CSH*MOV118 | | |
| N2-OSP-SAS-R001/001 | 4.3.7.5-1.16 | 2SAS*HCV160 | N2-OSP-SAS-R001 | |
| | | 2SAS*HCV161 | | |
| | | 2SAS*HCV162 | | |
| | | 2SAS*HCV163 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-MSS-R001/001 | 4.3.7.5-1.16 | 2MSS*MOV111 | N2-OSP-MSS-R001 | |
| | | 2MSS*MOV112 | | |
| | | 2MSS*MOV208 | | |
| | | 2MSS*AOV6A | | |
| | | 2MSS*AOV6B | | |
| | | 2MSS*AOV6C | | |
| | | 2MSS*AOV6D | | |
| | | 2MSS*AOV7A | | |
| | | 2MSS*AOV7B | | |
| | | 2MSS*AOV7C | | |
| | | 2MSS*AOV7D | | |
| | | 2MSS*MOV118 | | |
| | | 2MSS*MOV119 | | |
| | | 2MSS*SOV97A | | |
| | | 2MSS*SOV97B | | |
| | | 2MSS*SOV97C | | |
| | | 2MSS*SOV97D | | |
| N2-OSP-SLS-R003/001 | 4.3.7.5-1.16 | 2SLS*MOV1A | N2-OSP-SLS-R003 | |
| | | 2SLS*MOV1B | | |
| | | 2SLS*MOV5A | | |
| | | 2SLS*MOV5B | | |
| N2-OSP-LMS-R001/001 | 4.3.7.5-1.16 | 2LMS*SOV152 | N2-OSP-LMS-R001 | |
| | | 2LMS*SOV153 | | |
| | | 2LMS*SOV156 | | |
| | | 2LMS*SOV157 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-ICS-R003/001 | 4.3.7.5-1.16 | 2ICS*MOV124 | N2-OSP-ICS-R003 | |
| | | 2ICS*MOV129 | | |
| | | 2ICS*MOV116 | | |
| | | 2ICS*MOV148 | | |
| | | 2ICS*MOV164 | | |
| | | 2ICS*MOV136 | | |
| | | 2ICS*MOV122 | | |
| | | 2ICS*MOV143 | | |
| | | 2ICS*MOV121 | | |
| | | 2ICS*MOV120 | | |
| | | 2ICS*MOV159 | | |
| | | 2ICS*MOV128 | | |
| | | 2ICS*MOV170 | | |
| | | 2ICS*AOV109 | | |
| | | 2ICS*AOV110 | | |
| | | 2ICS*AOV130 | | |
| | | 2ICS*AOV131 | | |
| | | 2ICS*MOV126 | | |
| | | 2ICS*AOV156 | | |
| | | 2ICS*AOV157 | | |
| N2-OSP-HCS-R001/001 | 4.3.7.5-1.16 | 2HCS*MOV6A | N2-OSP-HCS-R001 | |
| | | 2HCS*MOV5A | | |
| | | 2HCS*MOV3A | | |
| | | 2HCS*MOV2A | | |
| | | 2HCS*MOV25A | | |
| | | 2HCS*MOV4A | | |
| | | 2HCS*MOV1A | | |
| | | 2HCS*SOV11A | | |
| | | 2HCS*SOV10A | | |
| | | 2HCS*MOV26A | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-IAS-R001/001 | 4.3.7.5-1.16 | 2IAS*SOV166 | N2-OSP-IAS-R001 | |
| | | 2IAS*SOV184 | | |
| | | 2IAS*SOV164 | | |
| | | 2IAS*SOVX181 | | |
| | | 2IAS*SOVY181 | | |
| | | 2IAS*SOV165 | | |
| | | 2IAS*SOVX186 | | |
| | | 2IAS*SOVY186 | | |
| | | 2IAS*SOV168 | | |
| | | 2IAS*SOV180 | | |
| | | 2IAS*SOV167 | | |
| | | 2IAS*SOV185 | | |
| N2-OSP-RCS-R002/001 | 4.3.7.5-1.16 | 2RCS*SOV104 | N2-OSP-RCS-R002 | |
| | | 2RCS*SOV105 | | |
| | | 2RCS*SOV65A | | |
| | | 2RCS*SOV66A | | |
| | | 2RCS*SOV67A | | |
| | | 2RCS*SOV68A | | |
| | | 2RCS*SOV79A | | |
| | | 2RCS*SOV80A | | |
| | | 2RCS*SOV81A | | |
| | | 2RCS*SOV82A | | |
| | | 2RCS*SOV65B | | |
| | | 2RCS*SOV66B | | |
| | | 2RCS*SOV67B | | |
| | | 2RCS*SOV68B | | |
| | | 2RCS*SOV79B | | |
| | | 2RCS*SOV80B | | |
| | | 2RCS*SOV81B | | |
| | | 2RCS*SOV82B | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-HCS-R001/002 | 4.3.7.5-1.16 | 2HCS*MOV6B | N2-OSP-HCS-R001 | |
| | | 2HCS*MOV5B | | |
| | | 2HCS*MOV3B | | |
| | | 2HCS*MOV2B | | |
| | | 2HCS*MOV25B | | |
| | | 2HCS*MOV4B | | |
| | | 2HCS*MOV1B | | |
| | | 2HCS*SOV11B | | |
| | | 2HCS*SOV10B | | |
| | | 2HCS*MOV26B | | |
| N2-OSP-CMS-R001/002 | 4.3.7.5-1.16 | | N2-OSP-CMS-R001 | SOV26C |
| N2-OSP-WCS-R001/002 | 4.3.7.5-1.16 | 2WCS*MOV102 | N2-OSP-WCS-R001 | MOV102 |
| N2-OSP-WCS-R001/003 | 4.3.7.5-1.16 | 2WCS*MOV112 | N2-OSP-WCS-R001 | MOV112 |
| N2-OSP-ICS-R003/002 | 4.3.7.5-1.16 | 2ICS*AOV156 | N2-OSP-ICS-R003 | AOV156&157 |
| | | 2ICS*AOV157 | | |
| N2-OSP-TIP-R001/002 | 4.3.7.5-1.16 | 2NMS*SOV1A | N2-OSP-TIP-R001 | CLOSED |
| | | 2NMS*SOV1B | | |
| | | 2NMS*SOV1C | | |
| | | 2NMS*SOV1D | | |
| | | 2NMS*SOV1E | | |
| N2-OSP-RHS-R005/002 | 4.3.7.5-1.16 | 2RHS*MOV1C | N2-OSP-RHS-R005 | C |
| | | 2RHS*MOV24C | | |
| | | 2RHS*MOV4C | | |
| | | 2RHS*AOV16C | | |
| | | 2RHS*MOV12B | | |
| | | 2RHS*MOV9B | | |
| | | 2RHS*MOV8B | | |
| | | 2RHS*MOV23B | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-RHS-R005/001 | 4.3.7.5-1.16 | 2RHS*MOV115 | N2-OSP-RHS-R005 | B |
| | | 2RHS*MOV2B | | |
| | | 2RHS*MOV30B | | |
| | | 2RHS*MOV26B | | |
| | | 2RHS*MOV37B | | |
| | | 2RHS*MOV15B | | |
| | | 2RHS*MOV80B | | |
| | | 2RHS*MOV24B | | |
| | | 2RHS*MOV40B | | |
| | | 2RHS*MOV33B | | |
| | | 2RHS*MOV67B | | |
| | | 2RHS*MOV1B | | |
| | | 2RHS*MOV22B | | |
| | | 2RHS*MOV116 | | |
| | | 2RHS*MOV4B | | |
| | | 2RHS*MOV27B | | |
| | | 2RHS*MOV32B | | |
| | | 2RHS*MOV25B | | |
| | | 2RHS*MOV104 | | |
| | | 2RHS*AOV16B | | |
| | | 2RHS*FV38B | | |
| | | 2RHS*SOV35B | | |
| | | 2RHS*SOV36B | | |
| | | 2RHS*SOV70B | | |
| | | 2RHS*SOV71B | | |
| | | 2RHS*SOV72B | | |
| | | 2RHS*SOV73B | | |
| | | 2RHS*MOV142 | | |
| | | 2RHS*MOV149 | | |
| | | 2RHS*FV38C | | |
| | | 2RHS*AOV39B | | |

| RF/PHST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-RHS-R004/001 | 4.3.7.5-1.16 | 2RHS*MOV2A | N2-OSP-RHS-R004 | |
| | | 2RHS*MOV1A | | |
| | | 2RHS*MOV4A | | |
| | | 2RHS*MOV26A | | |
| | | 2RHS*MOV30A | | |
| | | 2RHS*MOV27A | | |
| | | 2RHS*MOV32A | | |
| | | 2RHS*MOV15A | | |
| | | 2RHS*MOV80A | | |
| | | 2RHS*MOV112 | | |
| | | 2RHS*MOV24A | | |
| | | 2RHS*AOV39A | | |
| | | 2RHS*AOV16A | | |
| | | 2RHS*MOV9A | | |
| | | 2RHS*MOV33A | | |
| | | 2RHS*MOV25A | | |
| | | 2RHS*MOV22A | | |
| | | 2RHS*MOV40A | | |
| | | 2RHS*MOV12A | | |
| | | 2RHS*MOV37A | | |
| | | 2RHS*MOV67A | | |
| | | 2RHS*MOV23A | | |
| | | 2RHS*FV38A | | |
| | | 2RHS*SOV36A | | |
| | | 2RHS*SOV35A | | |
| | | 2RHS*MOV113 | | |
| | | 2RHS*MOV8A | | |
| | | 2RHS*SOV70A | | |
| | | 2RHS*SOV72A | | |
| | | 2RHS*SOV71A | | |
| | | 2RHS*SOV73A | | |
| N2-OSP-FWS-R101/002 | 4.3.7.5-1.16 | 2FWS*MOV21A | N2-OSP-FWS-R101 | MOV21A&B |
| | | 2FWS*MOV21B | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-RCS-R002/002 | 4.3.7.5-1.16 | 2RCS*SOV104 | N2-OSP-RCS-R002 | *SOV104/ 105 |
| | | 2RCS*SOV105 | | |
| N2-OSP-RDS-R001/001 | 4.3.7.5-1.16 | 2RDS*AOV124 | N2-OSP-RDS-R001 | |
| | | 2RDS*AOV132 | | |
| | | 2RDS*AOV123 | | |
| | | 2RDS*AOV130 | | |
| N2-OSP-DER-R001/001 | 4.3.7.5-1.16 | 2DER*MOV119 | N2-OSP-DER-R001 | |
| | | 2DER*MOV120 | | |
| | | 2DER*MOV130 | | |
| | | 2DER*MOV131 | | |
| N2-OSP-FWS-R101/001 | 4.3.7.5-1.16 | 2FWS*AOV23A | N2-OSP-FWS-R101 | AOV23A&B |
| | | 2FWS*AOV23B | | |
| N2-OSP-CSL-R002/001 | 4.3.7.5-1.16 | 2CSL*MOV112 | N2-OSP-CSL-R002 | |
| | | 2CSL*MOV107 | | |
| | | 2CSL*FV114 | | |
| | | 2CSL*MOV104 | | |
| | | 2CSL*AOV101 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-CCP-R001/001 | 4.3.7.5-1.16 | 2CCP*MOV17A | N2-OSP-CCP-R001 | |
| | | 2CCP*MOV94A | | |
| | | 2CCP*MOV16A | | |
| | | 2CCP*MOV15A | | |
| | | 2CCP*MOV17B | | |
| | | 2CCP*MOV94B | | |
| | | 2CCP*MOV16B | | |
| | | 2CCP*MOV15B | | |
| | | 2CCP*MOV122 | | |
| | | 2CCP*MOV265 | | |
| | | 2CCP*MOV273 | | |
| | | 2CCP*AOV38A | | |
| | | 2CCP*AOV37A | | |
| | | 2CCP*AOV38B | | |
| | | 2CCP*AOV37B | | |
| | | 2CCP*MOV14A | | |
| | | 2CCP*MOV18A | | |
| | | 2CCP*MOV14B | | |
| | | 2CCP*MOV18B | | |
| | | 2CCP*MOV124 | | |
| N2-OSP-AAS-R001/001 | 4.3.7.5-1.16 | 2AAS*HCV134 | N2-OSP-AAS-R001 | |
| | | 2AAS*HCV135 | | |
| | | 2AAS*HCV136 | | |
| | | 2AAS*HCV137 | | |
| N2-OSP-DFR-R001/001 | 4.3.7.5-1.16 | 2DFR*MOV120 | N2-OSP-DFR-R001 | |
| | | 2DFR*MOV121 | | |
| | | 2DFR*MOV139 | | |
| | | 2DFR*MOV140 | | |
| N2-OSP-GSN-R001/001 | 4.3.7.5-1.16 | 2GSN*SOV166 | N2-OSP-GSN-R001 | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-TIP-R001/001 | 4.3.7.5-1.16 | 2NMS*SOV1A<br>2NMS*SOV1B<br>2NMS*SOV1C<br>2NMS*SOV1D<br>2NMS*SOV1E | N2-OSP-TIP-R001 | OPEN |
| N2-OSP-CMS-R001/005 | 4.3.7.5-1.16 | 2CMS*SOV23B | N2-OSP-CMS-R001 | SOV23B |
| N2-OSP-MSS-R001/002 | 4.3.7.5-1.16 | 2MSS*SOV97D | N2-OSP-MSS-R001 | SOV97D |
| N2-OSP-RHS-R005/005 | 4.3.7.5-1.16 | 2RHS*SOV36B | N2-OSP-RHS-R005 | SOV36B |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-OSP-CMS-R001/001 | 4.3.7.5-1.16 | 2CMS*SOV24A | N2-OSP-CMS-R001 | |
| | | 2CMS*SOV24C | | |
| | | 2CMS*SOV32A | | |
| | | 2CMS*SOV33A | | |
| | | 2CMS*SOV26A | | |
| | | 2CMS*SOV26C | | |
| | | 2CMS*SOV34A | | |
| | | 2CMS*SOV35A | | |
| | | 2CMS*SOV24B | | |
| | | 2CMS*SOV24D | | |
| | | 2CMS*SOV32B | | |
| | | 2CMS*SOV33B | | |
| | | 2CMS*SOV26B | | |
| | | 2CMS*SOV26D | | |
| | | 2CMS*SOV34B | | |
| | | 2CMS*SOV35B | | |
| | | 2CMS*SOV61A | | |
| | | 2CMS*SOV60A | | |
| | | 2CMS*SOV62A | | |
| | | 2CMS*SOV63A | | |
| | | 2CMS*SOV61B | | |
| | | 2CMS*SOV60B | | |
| | | 2CMS*SOV62B | | |
| | | 2CMS*SOV63B | | |
| | | 2CMS*SOV74A | | |
| | | 2CMS*SOV76A | | |
| | | 2CMS*SOV77A | | |
| | | 2CMS*SOV75A | | |
| | | 2CMS*SOV74B | | |
| | | 2CMS*SOV76B | | |
| | | 2CMS*SOV77B | | |
| | | 2CMS*SOV75B | | |
| | | 2CMS*SOV23A | | |
| | | 2CMS*SOV23B | | |
| | | 2CMS*SOV23C | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| | | 2CMS*SOV23D | | |
| | | 2CMS*SOV23F | | |
| | | 2CMS*SOV25A | | |
| | | 2CMS*SOV25B | | |
| | | 2CMS*SOV25C | | |
| | | 2CMS*SOV25D | | |
| | | 2CMS*SOV64A | | |
| | | 2CMS*SOV64B | | |
| | | 2CMS*SOV65A | | |
| | | 2CMS*SOV65B | | |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.2.a | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.2.a | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.2.a | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-ISC-R118/002 | 4.3.7.5-1.2.a | 2ISC*LT13B | N2-ISP-ISC-R118 | 2 |
| | | B22-N044B | | |
| | | 2ISC*LR1615 | | |
| N2-ISP-ISC-R118/001 | 4.3.7.5-1.2.a | 2ISC*LT13A | N2-ISP-ISC-R118 | 1 |
| | | B22-N044A | | |
| | | B22-R610 | | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.2.b | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.2.b | | N2-OSP-LOG-M001 | |

| RF/PHST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-ISC-R104/002 | 4.3.7.5-1.2.b | 2ISC*LIS1691B | N2-ISP-ISC-R104 | 2 |
| | | B22-N691B | | |
| | | 2ISC*LT9B | | |
| | | B22-N091B | | |
| | | 2ISC*LS1692B | | |
| | | B22-N692B | | |
| | | 2ISC*LS1693B | | |
| | | B22-N693B | | |
| | | 2ISC*LR1623B | | |
| | | B22-R623B | | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.2.b | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-ISC-R104/004 | 4.3.7.5-1.2.b | 2ISC*LIS1691F | N2-ISP-ISC-R104 | 4 |
| | | B22-N691F | | |
| | | 2ISC*LT9D | | |
| | | B22-N091F | | |
| | | 2ISC*LS1692F | | |
| | | B22-N692F | | |
| | | 2ISC*LS1693F | | |
| | | B22-N693F | | |
| N2-ISP-ISC-R104/003 | 4.3.7.5-1.2.b | 2ISC*LIS1691E | N2-ISP-ISC-R104 | 3 |
| | | B22-N691E | | |
| | | 2ISC*LT9C | | |
| | | B22-N091E | | |
| | | 2ISC*LS1692E | | |
| | | B22-N682E | | |
| | | 2ISC*LS1693E | | |
| | | B22-N693E | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-ISC-R104/001 | 4.3.7.5-1.2.b | 2ISC*LIS1691A<br>B22-N691A<br>2ISC*LT9A<br>B22-N091A<br>2ISC*LS1692A<br>B22-N692A<br>2ISC*LS1693A<br>B22-N693A<br>2ISC*LR1623A<br>B22-R623A | N2-ISP-ISC-R104 | 1 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.3.a | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.3.a | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.3.a | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-CMS-R119/002 | 4.3.7.5-1.3.a | 2CMS*LT11B<br>2CMS*PWRS11B<br>2CMS*LI11B | N2-ISP-CMS-R119 | 2 |
| N2-ISP-CMS-R119/001 | 4.3.7.5-1.3.a | 2CMS*LT11A<br>2CMS*PWRS11A<br>2CMS*LI11A | N2-ISP-CMS-R119 | 1 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.3.b | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.3.b | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.3.b | | N2-OSP-LOG-M001 | RE111 |
| N2-ISP-CMS-R104/002 | 4.3.7.5-1.3.b | 2CMS*LT9B<br>2CMS*PWRS9B<br>2CMS*LR9B<br>2CMS*LR3B | N2-ISP-CMS-R104 | 2 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R104/001 | 4.3.7.5-1.3.b | 2CMS*LT9A | N2-ISP-CMS-R104 | 1 |
| | | 2CMS*PWRS9A | | |
| | | 2CMS*LI9A | | |
| N2-ISP-CMS-R117/005 | 4.3.7.5-1.4 | 2CMS*TE59B | N2-ISP-CMS-R117 | 5 |
| | | 2CMS*TTX59B | | |
| | | 2CMS*TTY59BB | | |
| | | 2CMS*TSH59B | | |
| | | 2CMS*TR2170 | | |
| | | 2CMS*TI172 | | |
| | | 2CMS*TI171 | | |
| | | 2RSS*TI104 | | |
| N2-ISP-CMS-R112/003 | 4.3.7.5-1.4 | 2CMS*TE69B | N2-ISP-CMS-R112 | 3 |
| | | 2CMS*TT69B | | |
| | | 2CMS*TR69B | | |
| | | 2CMS*TI174 | | |
| | | 2CMS*TI175 | | |
| N2-ISP-CMS-R112/004 | 4.3.7.5-1.4 | 2CMS*TE70B | N2-ISP-CMS-R112 | 4 |
| | | 2CMS*TT70B | | |
| | | 2CMS*TR70B | | |
| | | 2CMS*TI114 | | |
| | | 2CMS*TI175 | | |
| N2-ISP-CMS-R117/001 | 4.3.7.5-1.4 | 2CMS*TE51B | N2-ISP-CMS-R117 | 1 |
| | | 2CMS*TTX51B | | |
| | | 2CMS*TTY51BB | | |
| | | 2CMS*TSH51B | | |
| | | 2CMS*TRW170 | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI104 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R115/001 | 4.3.7.5-1.4 | 2CMS*TE50B | N2-ISP-CMS-R115 | 1 |
| | | 2CMS*TTX50B | | |
| | | 2CMS*TSH50B | | |
| | | 2CMS*TRW170 | | |
| | | 2CMS*TTI172 | | |
| | | 2CMS*TI171 | | |
| N2-ISP-CMS-R117/002 | 4.3.7.5-1.4 | 2CMS*TE53B | N2-ISP-CMS-R117 | 2 |
| | | 2CMS*TTX53B | | |
| | | 2CMS*TTY53BB | | |
| | | 2CMS*TSH53B | | |
| | | 2CMS*TRX170 | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI104 | | |
| N2-ISP-CMS-R111/001 | 4.3.7.5-1.4 | 2CMS*TE67A | N2-ISP-CMS-R111 | 1 |
| | | 2CMS*TT67A | | |
| | | 2CMS*TI175 | | |
| N2-ISP-CMS-R111/002 | 4.3.7.5-1.4 | 2CMS*TE68A | N2-ISP-CMS-R111 | 2 |
| | | 2CMS*TT68A | | |
| | | 2CMS*TI175 | | |
| | | 2CMS*TI174 | | |
| N2-ISP-CMS-R113/005 | 4.3.7.5-1.4 | 2CMS*TE59A | N2-ISP-CMS-R113 | 5 |
| | | 2CMS*TTX59A | | |
| | | 2CMS*TSH59A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| N2-ISP-CMS-R111/003 | 4.3.7.5-1.4 | 2CMS*TE69A | N2-ISP-CMS-R111 | 3 |
| | | 2CMS*TT69A | | |
| | | 2CMS*TI175 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R111/004 | 4.3.7.5-1.4 | 2CMS*TE70A | N2-ISP-CMS-R111 | 4 |
| | | 2CMS*TT70A | | |
| | | 2CMS*TI175 | | |
| | | 2CMS*TI174 | | |
| N2-ISP-CMS-R118/005 | 4.3.7.5-1.4 | 2CMS*TE58A | N2-ISP-CMS-R118 | 5 |
| | | 2CMS*TTX58A | | |
| | | 2CMS*TTY58AA | | |
| | | 2CMS*TSH58A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI103 | | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.4 | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-CMS-R115/002 | 4.3.7.5-1.4 | 2CMS*TE52B | N2-ISP-CMS-R115 | 2 |
| | | 2CMS*TTX52B | | |
| | | 2CMS*TSH52B | | |
| | | 2CMS*TRW170 | | |
| | | 2CMS*TI172 | | |
| | | 2CMS*TI171 | | |
| N2-ISP-CMS-R115/003 | 4.3.7.5-1.4 | 2CMS*TE54B | N2-ISP-CMS-R115 | 3 |
| | | 2CMS*TTX54B | | |
| | | 2CMS*TSH54B | | |
| | | 2CMS*TRX170 | | |
| | | 2CMS*TI172 | | |
| | | 2CMS*TI171 | | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.4 | | N2-OSP-LOG-M001 | RE111 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R117/004 | 4.3.7.5-1.4 | 2CMS*TE57B | N2-ISP-CMS-R117 | 4 |
| | | 2CMS*TTX57B | | |
| | | 2CMS*TTY57BB | | |
| | | 2CMS*TSH57B | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI104 | | |
| N2-ISP-CMS-R115/004 | 4.3.7.5-1.4 | 2CMS*TE56B | N2-ISP-CMS-R115 | 4 |
| | | 2CMS*TTX56B | | |
| | | 2CMS*TSH56B | | |
| | | 2CMS*TRY170 | | |
| | | 2CMS*TI172 | | |
| | | 2CMS*TI171 | | |
| N2-ISP-CMS-R115/005 | 4.3.7.5-1.4 | 2CMS*TE58B | N2-ISP-CMS-R115 | 5 |
| | | 2CMS*TTX58B | | |
| | | 2CMS*TSH58B | | |
| | | 2CMS*TRY170 | | |
| | | 2CMS*TI172 | | |
| | | 2CMS*TI171 | | |
| N2-ISP-CMS-R117/003 | 4.3.7.5-1.4 | 2CMS*TE55B | N2-ISP-CMS-R117 | 3 |
| | | 2CMS*TTX55B | | |
| | | 2CMS*TTY55BB | | |
| | | 2CMS*TSH55B | | |
| | | 2CMS*TRX170 | | |
| | | 2CMS*TI172 | | |
| | | 2CMS*TI171 | | |
| | | 2RSS*TI104 | | |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.4 | | N2-OSP-LOG-M001 | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R113/001 | 4.3.7.5-1.4 | 2CMS*TE51A | N2-ISP-CMS-R113 | 1 |
| | | 2CMS*TTX51A | | |
| | | 2CMS*TSH51A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| N2-ISP-CMS-R113/002 | 4.3.7.5-1.4 | 2CMS*TE53A | N2-ISP-CMS-R113 | 2 |
| | | 2CMS*TTX53A | | |
| | | 2CMS*TSH53A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| N2-ISP-CMS-R112/002 | 4.3.7.5-1.4 | 2CMS*TE68B | N2-ISP-CMS-R112 | 2 |
| | | 2CMS*TT68B | | |
| | | 2CMS*TR68B | | |
| | | 2CMS*TI174 | | |
| | | 2CMS*TI175 | | |
| N2-ISP-CMS-R113/003 | 4.3.7.5-1.4 | 2CMS*TE55A | N2-ISP-CMS-R113 | 3 |
| | | 2CMS*TTX55A | | |
| | | 2CMS*TSH55A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| N2-ISP-CMS-R113/004 | 4.3.7.5-1.4 | 2CMS*TE57A | N2-ISP-CMS-R113 | 4 |
| | | 2CMS*TTX57A | | |
| | | 2CMS*TSH57A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R118/001 | 4.3.7.5-1.4 | 2CMS*TE50A | N2-ISP-CMS-R118 | 1 |
| | | 2CMS*TTX50A | | |
| | | 2CMS*TTY50AA | | |
| | | 2CMS*TSH50A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI103 | | |
| N2-ISP-CMS-R118/002 | 4.3.7.5-1.4 | 2CMS*TE52A | N2-ISP-CMS-R118 | 2 |
| | | 2CMS*TTX52A | | |
| | | 2CMS*TTY52AA | | |
| | | 2CMS*TSH52A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI103 | | |
| N2-ISP-CMS-R118/003 | 4.3.7.5-1.4 | 2CMS*TE54A | N2-ISP-CMS-R118 | 3 |
| | | 2CMS*TTX54A | | |
| | | 2CMS*TTY54AA | | |
| | | 2CMS*TSH54A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI103 | | |
| N2-ISP-CMS-R118/004 | 4.3.7.5-1.4 | 2CMS*TE56A | N2-ISP-CMS-R118 | 4 |
| | | 2CMS*TTX56A | | |
| | | 2CMS*TTY56AA | | |
| | | 2CMS*TSH56A | | |
| | | 2CMS*TI171 | | |
| | | 2CMS*TI172 | | |
| | | 2RSS*TI103 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R112/001 | 4.3.7.5-1.4 | 2CMS*TE67B<br>2CMS*TT67B<br>2CMS*TR67B<br>2CMS*TI174<br>2CMS*TI175 | N2-ISP-CMS-R112 | 1 |
| N2-ISP-CMS-R120/003 | 4.3.7.5-1.5 | 2CMS-PT168<br>2CMS-PWRS168<br>2CMS-PI168 | N2-ISP-CMS-R120 | 3 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.5 | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.5 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.5 | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-CMS-R120/002 | 4.3.7.5-1.5 | 2CMS*PT7B<br>2CMS*PWRS7B<br>2CMS*PI7B | N2-ISP-CMS-R120 | 2 |
| N2-ISP-CMS-R120/001 | 4.3.7.5-1.5 | 2CMS*PT7A<br>2CMS*PWRS7A<br>2CMS*PI7A | N2-ISP-CMS-R120 | 1 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.6 | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.6 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.6 | | N2-OSP-LOG-M001 | RE112 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R106/002 | 4.3.7.5-1.6 | 2CMS*TE122 | N2-ISP-CMS-R106 | 2 |
| | | 2CMS*TE123 | | |
| | | 2CMS*TE124 | | |
| | | 2CMS*TTX122 | | |
| | | 2CMS*TTY122 | | |
| | | 2CMS*TTX123 | | |
| | | 2CMS*TTY123 | | |
| | | 2CMS*TTX124 | | |
| | | 2CMS*TTY124 | | |
| | | 2CMS*TY145 | | |
| | | 2CMS*TY146 | | |
| | | 2CMS*TRZ140 | | |
| | | 2CMS*TSHX/Y145 | | |
| | | 2CMS*TI145 | | |
| | | 2CMS*TI146 | | |
| N2-ISP-CMS-R106/001 | 4.3.7.5-1.6 | 2CMS*TE107 | N2-ISP-CMS-R106 | 1 |
| | | 2CMS*TE108 | | |
| | | 2CMS*TE109 | | |
| | | 2CMS*TTX107 | | |
| | | 2CMS*TTY107 | | |
| | | 2CMS*TTX108 | | |
| | | 2CMS*TTY108 | | |
| | | 2CMS*TTX109 | | |
| | | 2CMS*TTY109 | | |
| | | 2CMS*TY135 | | |
| | | 2CMS*TY136 | | |
| | | 2CMS*TRZ130 | | |
| | | 2CMS*TSHX/Y135 | | |
| | | 2CMS*TI135 | | |
| | | 2CMS*TI136 | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R107/002 | 4.3.7.5-1.7 | 2CMS*PT1B<br>2CMS*PWRS1B<br>2CMS*PR1B<br>2CMS*PI1B<br>2CMS*PSH1B | N2-ISP-CMS-R107 | 2 |
| N2-ISP-CMS-R107/003 | 4.3.7.5-1.7 | 2CMS*PT2A<br>2CMS*PWRS2A<br>2CMS*PI2A | N2-ISP-CMS-R107 | 3 |
| N2-ISP-CMS-R107/004 | 4.3.7.5-1.7 | 2CMS*PT2B<br>2CMS*PWRS2B<br>2CMS*PR2B | N2-ISP-CMS-R107 | 4 |
| N2-ISP-CMS-R107/001 | 4.3.7.5-1.7 | 2CMS*PT1A<br>2CMS*PWRS1A<br>2CMS*PI1A<br>2CMS*PSH1A | N2-ISP-CMS-R107 | 1 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.7.a | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.7.a | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.7.a | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.7.b | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.7.b | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.7.b | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.8 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.8 | | N2-OSP-LOG-M001 | RE111 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R108/002 | 4.3.7.5-1.8 | 2CMS*TE116 | N2-ISP-CMS-R108 | 2 |
| | | 2CMS*TE117 | | |
| | | 2CMS*TE118 | | |
| | | 2CMS*TE119 | | |
| | | 2CMS*TE120 | | |
| | | 2CMS*TE121 | | |
| | | 2CMS*TTX116 | | |
| | | 2CMS*TTX117 | | |
| | | 2CMS*TTX118 | | |
| | | 2CMS*TTX119 | | |
| | | 2CMS*TTX120 | | |
| | | 2CMS*TTX121 | | |
| | | 2CMS*TTY116 | | |
| | | 2CMS*TTY117 | | |
| | | 2CMS*TTY118 | | |
| | | 2CMS*TTY119 | | |
| | | 2CMS*TTY120 | | |
| | | 2CMS*TTY121 | | |
| | | 2CMS*TY141 | | |
| | | 2CMS*TY142 | | |
| | | 2CMS*TY143 | | |
| | | 2CMS*TY144 | | |
| | | 2CMS*TY153 | | |
| | | 2CMS*TY154 | | |
| | | 2CMS*TRX140 | | |
| | | 2CMS*TRY140 | | |
| | | 2CMS*TSHX153 | | |
| | | 2CMS*TSHY153 | | |
| | | 2CMS*TI153 | | |
| | | 2CMS*TI154 | | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.8 | | N2-OSP-LOG-M001 | RE112 |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R108/001 | 4.3.7.5-1.8 | 2CMS*TE101 | N2-ISP-CMS-R108 | 1 |
| | | 2CMS*TE102 | | |
| | | 2CMS*TE103 | | |
| | | 2CMS*TE104 | | |
| | | 2CMS*TE105 | | |
| | | 2CMS*TE106 | | |
| | | 2CMS*TTX101 | | |
| | | 2CMS*TTX102 | | |
| | | 2CMS*TTX103 | | |
| | | 2CMS*TTX104 | | |
| | | 2CMS*TTX105 | | |
| | | 2CMS*TTX106 | | |
| | | 2CMS*TTY101 | | |
| | | 2CMS*TTY102 | | |
| | | 2CMS*TTY103 | | |
| | | 2CMS*TTY104 | | |
| | | 2CMS*TTY105 | | |
| | | 2CMS*TTY106 | | |
| | | 2CMS*TY131 | | |
| | | 2CMS*TY132 | | |
| | | 2CMS*TY133 | | |
| | | 2CMS*TY134 | | |
| | | 2CMS*TY151 | | |
| | | 2CMS*TY152 | | |
| | | 2CMS*TRX130 | | |
| | | 2CMS*TRY130 | | |
| | | 2CMS*TSHX151 | | |
| | | 2CMS*TSHY151 | | |
| | | 2CMS*TI151 | | |
| | | 2CMS*TI152 | | |
| N2-ISP-CMS-Q110/001 | 4.3.7.5-1.9 | 2CMS*AE6A | N2-ISP-CMS-Q110 | 1 |
| | | 2CMS*AE71A | | |

| RF/PMST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-Q110/002 | 4.3.7.5-1.9 | 2CMS*AE6B<br>2CMS*AE71B | N2-ISP-CMS-Q110 | 2 |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.9 | | N2-OSP-LOG-M001 | RE112 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.9 | | N2-OSP-LOG-M001 | RE111 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.9 | | N2-OSP-LOG-M001 | |
| N2-ISP-SVV-R102/013 | 4.4.2.1.b | 2SVV*NBE232<br>2SVV*NBI232<br>2SVV*NBY232<br>2SVV*NBU232 | N2-ISP-SVV-R102 | 13 |
| N2-ISP-SVV-R102/017 | 4.4.2.1.b | 2SVV*NBE236<br>2SVV*NBU236<br>2SVV*NBI236<br>2SVV*NBY236 | N2-ISP-SVV-R102 | 17 |
| N2-ISP-SVV-R102/018 | 4.4.2.1.b | 2SVV*NBE237<br>2SVV*NBI237<br>2SVV*NBU237<br>2SVV*NBY237 | N2-ISP-SVV-R102 | 18 |
| N2-ISP-SVV-R102/016 | 4.4.2.1.b | 2SVV*NBE235<br>2SVV*NBU235<br>2SVV*NBI235<br>2SVV*NBY235 | N2-ISP-SVV-R102 | 16 |
| N2-ISP-SVV-R102/015 | 4.4.2.1.b | 2SVV*NBE234<br>2SVV*NBU234<br>2SVV*NBI234<br>2SVV*NBY234 | N2-ISP-SVV-R102 | 15 |

| RF/PHST2..... | SR Num..... | Component Id... | Procedure Number..... | Attach.. |
|---|---|---|---|---|
| N2-ISP-CMS-R118/003 | 4.3.7.4-1.9 | 2CMS*TE54A<br>2CMS*TTX54A<br>2CMS*TTY54AA<br>2CMS*TSH54A<br>2CMS*TI171<br>2CMS*TI172<br>2RSS*TI103 | N2-ISP-CMS-R118 | 3 |
| N2-ISP-CMS-R118/005 | 4.3.7.4-1.9 | 2CMS*TE58A<br>2CMS*TTX58A<br>2CMS*TTY58AA<br>2CMS*TSH58A<br>2CMS*TI171<br>2CMS*TI172<br>2RSS*TI103 | N2-ISP-CMS-R118 | 5 |
| N2-ISP-CMS-R117/001 | 4.3.7.4-1.9 | 2CMS*TE51B<br>2CMS*TTX51B<br>2CMS*TTY51BB<br>2CMS*TSH51B<br>2CMS*TRW170<br>2CMS*TI171<br>2CMS*TI172<br>2RSS*TI104 | N2-ISP-CMS-R117 | 1 |
| N2-OSP-LOG-M001/001 | 4.3.7.5-1.1 | | N2-OSP-LOG-M001 | |
| N2-OSP-LOG-M001/009 | 4.3.7.5-1.1 | | N2-OSP-LOG-M001 | RE112 |
| N2-ISP-ISC-R115/002 | 4.3.7.5-1.1 | 2ISC*PT6B<br>B22-N062B<br>2ISC*PR1623B | N2-ISP-ISC-R115 | 2 |
| N2-OSP-LOG-M001/006 | 4.3.7.5-1.1 | | N2-OSP-LOG-M001 | RE111 |

PT6B