


Northeast Utilities
Millstone - Unit 3

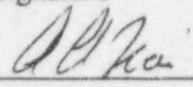
Independent Corrective Action Verification Program
(ICAVP)

Modification Review Checklist

CK-MP3-03-14, Rev. 0

Station Blackout Review Checklist

Prepared by: C. M. LAUNI  4-7-97
Name Signature Date

Approved by: A. A. NEKI  4-7-97
Name Signature Date

IMPLEMENTATION

System		
Modification No./ Description		
Verified by:		Date:
Concurrence by:		Date:

Sheet 1 of ____

Station Blackout Review

Instructions

This checklist shall be used for the modification review process described in PI-MP3-03. It shall be used for those modifications for which the Station Blackout was identified by the Lead Verifier, in the Modification Screening Checklist (CK-MP3-03-02), as the affected design element. The objective of completing this checklist will be to perform a detailed review to verify that the Station Blackout was adequately addressed in the modification.

The following instructions apply for completing this checklist:

1. This checklist shall be completed by a verification team (VT) member with a technical background which is appropriate for the subject.
2. The reference document for related information is SP-EE-363, "MP3 Station Blackout Safe Shutdown Scenario Document".
3. The checklist below is divided into sections and subsections. If the applicability of the topic in a section is "NO", the applicability of the topics in its subsections need not be addressed.
4. The Verifier(s) shall perform a technical review of the modification package, any new or revised design process documents that resulted from the modification per PI-MP3-02, and any new or revised output documents that resulted from the modification when completing this checklist. For each topic for which the applicability is determined in the affirmative, the Verifier(s) shall enter a comment towards the end of the checklist describing the impact of the modification on the topic. A review of the impact on the SBO safe shutdown shall also be provided by the Verifier(s). If the said impact cannot be established from available documents, the need for further analysis/review shall be identified by the Verifier(s).
5. The Verifier(s) shall generate a discrepancy report for any discrepancies identified during the review in accordance with Section 5.7 of PI-MP3-03.
6. When the review is completed, the Verifier(s) shall sign and date the cover sheet of this checklist and forward it to the Lead Verifier.

Station Blackout Review

	YES	NO	N/A	Comment No.
1. Systems and Components				
1.1 Did the modification affect the SBO Diesel Generator?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.2 Did the modification affect the SBO Diesel Air Start?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.3 Did the modification affect the SBO Diesel Lube Oil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.4 Did the modification affect the SBO Fuel Oil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.5 Did the modification affect the following components of the RCS PressureBoundary?				
a) RCS Pump Bleedoff Isolation Valves, CHS*MV8100, 8109A-D, CCP*MOV49A,B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) RCS Sampling System Isolation Valves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) RCS Letdown System Isolation Valves, CHS*CV8152, -8160, RCS8LCV460, -459 RCS*AV8037A-D, -8053, MV8098	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) RPV Vent Valves, RCS*HCV442A, RCS*SV8095, -8096	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e) RCS Loop Temp Monitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f) Pressurizer Level Monitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
g) Pressurizer Pressure Monitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.6 Did the modification affect the following components of the Main SteamSystem?				
a) MSIVs, 3MSS*CTV27A-D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) S/Gs, 3SG1A-D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) S/G Safety Valves, 3MSS-RV22-26A-D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Main Steam Atmospheric Dump Valves, 3MSS*PV20A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Station Blackout Review

	YES	NO	N/A	Comment No.
e) AFW Terry Turbine Steam Supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.7 Did the modification affect the following components of the Auxiliary Feedwater System?				
a) DWST, 3FWA*TK1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.8 Did the modification affect the Feedwater Piping from Aux Feed to S/Gs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.9 Did the modification affect the Main Steam Valve Bldg Ventilation (fresh air to MSVB)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.10 Did the modification affect the following components of the Chemical and Volume Control System?				
a) Charging Pumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Boric Acid Storage Tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) RWST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.11 Did the modification affect the Charging Pump Cooling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.12 Did the modification affect the Service Water (Cooling for CCE)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.13 Did the modification affect the Quench Spray (RWST Supply to CHS)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.14 Did the modification affect the High Pressure Safety Injection(Piping for CHS Loop Charging)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15 Did the modification affect the Aux Bldg Ventilation (Fresh Air to Charging Pump Cubicles)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.16 Did the modification affect the Battery Room Exhaust?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Station Blackout Review

	YES	NO	N/A	Comment No.
1.17 Did the modification affect the following components of the Alternate AC Power System?				
a) 4160VAC Power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) 480VAC Power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.18 Did the modification affect the following components of the 125 VDC Power System?				
a) Batteries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Breakers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.19 Did the modification affect the 120 VAC Vital Control Power?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.20 Did the modification affect the following components of the Reactor Protection System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
a) 52/RTA Reactor Breaker, 3RPS*ACB-RTA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) 52/RTB Reactor Breaker, 3RPS*ACB-RTB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) 52BYA Bypass Breaker, 3RPS*ACB-B : A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) 52BYB Bypass Breaker, 3RPS*ACB-BYB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.21 Did the modification affect the Control Room Panel Doors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.22 Did the modification affect the Vital Instrumentation and Portions of the Class 1E Electrical Distribution System to Support Above SBO Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Procedures				
2.1 Did the modification affect the CONVEX Operating Instruction No. 006, "Restoration"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Station Blackout Review

		YES	NO	N/A	Comment No.
2.2	Did the modification affect the CONVEX, Operating Instruction No. 6913, "Millstone 15G"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.3	Did the modification affect the CONVEX Operating Instruction No. 8601, "Millstone 345 kV Substation Salt Decontamination"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.4	Did the modification affect Procedure TD 250, "Load Shedding and Interruptible Loads"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.5	Did the modification affect Procedure TD 503, " "Transmission Line Patrols?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.6	Did the modification affect Procedure TD 506, "Transmission Line Emergency Patrols Regional/Area Assistance"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.7	Did the modification affect Procedure AOP 3569, "Severe Weather Conditions" ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.8	Did the modification affect Procedure EOP 35 ECA-0.0, "Loss of All AC Power"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.9	Did the modification affect Procedure EOP 35 ECA-0.1, "Loss of All AC Power Recovery Without SI Required"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Did the modification affect Procedure EOP 35 ECA-0.2, "Loss of All AC Power Recovery With SI Required"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Did the modification affect Operating Procedure OP-3346A?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Did the modification affect Surveillance Procedure SP-3646A.1,2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Did the modification affect Engineering Department Instruction 1-ENG-10.06, "Emergency Generator Reliability Monitoring for SBO Rule Compliance"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Northeast Utilities
Millstone Unit 3

CK-MP3-03-14

System No.: _____

Modification No. _____

Sheet _____ of _____

Station Blackout Review

		YES	NO	N/A	Comment No.
2.14	Did the modification affect NEO 5.26, "Station Blackout Quality Assurance Program"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Station Blackout Review

		YES	NO	N/A	Comment No.
3.	Dominant Areas of Concern				
3.1	Does the modification affect the temperature environment of the Control Room?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.2	Does the modification affect the temperature environment of the Instrument Rack Room?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.3	Does the modification affect the temperature environment of the Steam Driven Aux. Feed Pump Room?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.4	Does the modification affect the temperature environment of the East Switchgear Room?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.5	Does the modification affect the temperature environment of the West Switchgear Room?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.6	Does the modification affect the temperature environment of the Main Steam Valve Building?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.7	Does the modification affect the temperature environment of the Charging Pump Cubicle?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.8	Does the modification affect the temperature environment of the East and West MCC Rod Control Area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Northeast Utilities
Millstone Unit 3

CK-MP3-03-14

System No.: _____

Modification No. _____

Sheet ____ of ____

Station Blackout Review

Comment Sheet

Comment No.

Comment