


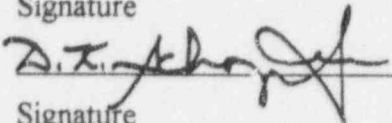
Northeast Utilities
Millstone - Unit 3

Independent Corrective Action Verification Program
(ICAVP)

Modification Review Checklist

CK-MP3-03-02, Rev. 0

Modification Screening Checklist

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	Name	Signature	Date
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	Name	Signature	Date

IMPLEMENTATION

System	
Modification No.	
Lead Verifier	
SRG Lead	

Sheet 1 of ____

Modification Screening Checklist

Instructions

This checklist supplements project instruction PI-MP3-03 and provides instructions for screening modifications for the purpose of identifying elements which require a detailed review. The checklist addresses various subjects and refers to various NU programs and documents. Prior to utilizing this checklist, the Lead Verifier and/or Verifiers shall read the NU documents to become familiar with Millstone's specific requirements. Use of this checklist shall be as follows:

1. The SRG Lead shall assign a Lead Verifier from the applicable discipline.
2. The Lead Verifier shall perform the screening by answering the questions on the checklist.
3. The Lead Verifier shall initial each response.
4. The Lead Verifier may request assistance from the discipline Verifiers as needed. Discipline Verifiers shall initial the responses they provide.
5. The Lead Verifier shall assemble the completed checklist by entering the system identifier and modification number in the titleblock on each sheet. The Lead Verifier shall also number the checklist pages sequentially and sign and date the cover sheet.
6. The SRG Lead shall indicate his concurrence that the checklists have been completed by signing and dating the cover sheet.
7. For elements determined to be affected, the Lead Verifier shall distribute checklists and the modification package to applicable discipline verifier for detailed review.

Modification Screening Checklist

Modification Screening Summary

<u>Review Attribute</u>	<u>Affected</u>		<u>Initials</u>
	<u>Yes</u>	<u>No</u>	
Mechanical System Design	_____	_____	_____
Electrical Design	_____	_____	_____
I&C Design	_____	_____	_____
Structural Design	_____	_____	_____
ALARA	_____	_____	_____
Security	_____	_____	_____
Appendix R Compliance	_____	_____	_____
Electrical Equipment Qualification	_____	_____	_____
Seismic Qualification	_____	_____	_____
Radiological Environment	_____	_____	_____
Non-Radiological Environment	_____	_____	_____
Station Blackout	_____	_____	_____
Control Panel Design	_____	_____	_____
Piping Design Review	_____	_____	_____
Setpoint Database	_____	_____	_____
Hazards/HELB	_____	_____	_____
Fire Protection	_____	_____	_____
Licensing	_____	_____	_____
PRA	_____	_____	_____
Training Procedures	_____	_____	_____
Emergency Preparedness Plan	_____	_____	_____
Plant Procedures	_____	_____	_____
Configuration Change	_____	_____	_____
Quality Software Design Review	_____	_____	_____

Modification Screening Checklist

Mechanical System Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the modification affect mechanical or ventilation systems or components?	_____	_____	_____
2. Does this modification affect piping systems?	_____	_____	_____
3. Does this modification alter or penetrate any barriers (i.e. HELB, fire, CO ₂ halon, ventilation, water, flooding, tornado, radiation, etc.)?	_____	_____	_____
4. Will the change increase the potential for flooding, reduce the capability to isolate or cope with local flooding or locate essential equipment where it would be susceptible to flooding?	_____	_____	_____
5. Does this modification add insulation inside the containment which is of a different type than that already used inside containment?	_____	_____	_____
6. Does this modification increase aluminum or add paint or coatings of a different type than that already used inside containment?	_____	_____	_____
7. Does this modification affect mechanical analysis or calculations such as thermal loading, flow and pressure drop evaluations?	_____	_____	_____
8. Does this modification affect mechanical drawings, data sheets, lists or databases, or other mechanical documents?	_____	_____	_____

Modification Screening Checklist

Electrical Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-04.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does this modification alter, add or delete cables, raceways or physical separation barriers (e.g., use of theraset flame retardant electrical insulating materials, siltemp-wrap, armoring, flex conduit, etc.)?	_____	_____	_____
2. Does this modification add hot piping, valves, pipe fittings or any other device that generates heat such that the installation of these components are within close proximity (less than 30 inches) of electrical raceways, (conduits, trays) or cables or could otherwise significantly impact ambient operating temperatures of electrical equipment?	_____	_____	_____
3. Does this modification change, add or delete any electrical loads, or alter the loading sequence on any electrical bus?	_____	_____	_____
4. Does this modification change, add, or delete a motor or MOV, alter the control circuit to an existing motor or MOV, or change the stroke time of any MOV?	_____	_____	_____
5. Does this modification add or alter a circuit which utilizes a containment electrical penetration?	_____	_____	_____
6. Does this modification revise a relay setting or alter, add, or delete in any way a protective device, alarm, or indication (i.e. fuse, breaker, undervoltage, underfrequency tol etc.)?	_____	_____	_____
7. Does this modification add or alter a structure which would affect the lightning protection and/or grounding system?	_____	_____	_____
8. Does this modification add to or alter the wiring, insulation, or connections in a control panel?	_____	_____	_____

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
9. Does this modification alter or affect in any way the equipment or structures which interface with any offsite power source or Switchyard or affect the HVAC requirements of any onsite power source enclosure (i.e. EDG, Battery or Inverter Room)?	_____	_____	_____
10. Does this modification affect electrical drawings, datasheets, lists or databases, etc.?	_____	_____	_____
11. Does this modification affect electrical calculations, such as equipment sizing, voltage drop, setpoints, overcurrent protection?	_____	_____	_____

Modification Screening Checklist

I&C Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-05.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the design affect the process parameters, which could require setpoint or calibration changes?	_____	_____	_____
2. Does the design require any indication, alarms or protective interlocks with existing equipment?	_____	_____	_____
3. Does the design install or modify the wiring or terminations inside panels?	_____	_____	_____
4. Does the design add, delete or modify any existing protection, control or indication loops?	_____	_____	_____
5. Does the design add, delete, modify any microprocessor-based instrumentation?	_____	_____	_____
6. Does the design affect the electrical and mechanical separation requirement as applied to the channelization of protection loops?	_____	_____	_____
7. Does the design add, delete or modify the tubing or tubing tray for any instrument loops?	_____	_____	_____
8. Does the design add, delete or modify air loading on the control or station air systems?	_____	_____	_____
9. Does the design affect instrumentation which provides input to the plant process computer?	_____	_____	_____
10. Does the design change environmental parameters of an area containing safety-related instrumentation?	_____	_____	_____

Modification Screening Checklist

Structural Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-06.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the modification add, modify or delete piping or pipe supports?	_____	_____	_____
2. Does the modification add, modify or delete any equipment mounted to floors or walls or steel beams?	_____	_____	_____
3. Does the modification add, delete or modify electrical raceway or raceway supports?	_____	_____	_____
4. Does the modification add, delete or modify HVAC ductwork or ductwork supports?	_____	_____	_____
5. Does the modification add, delete or modify access platforms?	_____	_____	_____
6. Does the modification require concrete excavation for anchor bolts, core drills, etc.?	_____	_____	_____
7. Does the modification affect site facilities such as buildings, fences, roadways, parking lots, buried commodities or site drainage?	_____	_____	_____
8. Does the modification require breaking of any outer walls?	_____	_____	_____
9. Does the modification involve heavy load considerations?	_____	_____	_____
10. Does this modification involve painting or coating activities?	_____	_____	_____
11. Does this modification affect structural drawings or analysis?	_____	_____	_____

Modification Screening Checklist

ALARA Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-07.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Did the modification alter systems which contain or could contain radioactivity (e.g., liquid, gaseous, or solid radwaste; HVAC in contaminated areas; post-accident recovery systems, etc.)?	_____	_____	_____
2. Did the modification alter parts of components that could be in a flow path leading to the reactor core?	_____	_____	_____
3. Did the modification alter, delete or add radiation shields?	_____	_____	_____
4. Was the estimated additional annual operating and maintenance dose from this modification greater than 1.0 person-rem?	_____	_____	_____
5. Will this project involve process, area, or airborne radiation monitoring equipment?	_____	_____	_____
6. Was any work performed inside radiological posted areas?	_____	_____	_____
7. Is there a possibility of coming in contact with contaminated liquid?	_____	_____	_____
8. Is there a possibility of coming in contact with airborne radioactivity?	_____	_____	_____
9. Is the estimated installation dose from this modification greater than 1.0 person-rem?	_____	_____	_____

Modification Screening Checklist

Security

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-08.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Will the work process or the design change create any openings in the Protected Area Barrier?	_____	_____	_____
2. Will the work process or the design change create any openings or require opening systems that penetrate the Vital Area Barrier (e.g., service water, circulating water, ventilation systems)? Will the work process require the opening of any door, roof, or floor plug that forms a portion of a Vital Area Barrier?	_____	_____	_____
3. Will the work process or the design change affect the Security System Power Supply, the Security Diesel Generator, the Security CCTV System or minimum lighting?	_____	_____	_____
4. Will the work process or the design change affect Security in any other way, or will Security support be required?	_____	_____	_____

Modification Screening Checklist

Appendix R Compliance

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-09.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Will the change alter the access/egress routes and/or the emergency lighting paths? The access/egress routes and emergency lighting locations are specified on drawings contained in each compliance report.	_____	_____	_____
2. Will the change alter the design or operation of any component utilized for reactor shutdown? These components are identified in the compliance report equipment listing section.	_____	_____	_____
3. Will the change alter the location, functionality, design, or material requirements of fire suppression or detection system, fire barriers on cabling wraps, structural steel coating, or fire dampers in areas associated with Items 1 and 2 above?	_____	_____	_____
4. Will the change alter the configuration of shutdown components of Item 2 by introducing combustible material near or between these components?	_____	_____	_____
5. Will the change alter the power or control cabling configuration to any of the shutdown components of Item 2?	_____	_____	_____
6. Will the change alter any communication systems that are utilized during plant shutdown following a fire? The Unit Compliance Report Communication Section identifies the communication systems needed for Appendix R Compliance.	_____	_____	_____
7. Will the change alter the reactor coolant pump oil collection system?	_____	_____	_____
8. Will the change add additional electrical or mechanical components whose failure or malfunction could prevent or degrade a plant shutdown after a fire? The necessary components are described in the Unit's shutdown Equipment and Methods Section in the Compliance Report.	_____	_____	_____

Modification Screening Checklist

Electrical Equipment Qualification

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-10.

- | | <u>No</u> | <u>Yes</u> | <u>Initials</u> |
|--|-----------|------------|-----------------|
| 1. Does the proposed design change modify the installation or configuration of any equipment or associated component listed on the EEQ Master List? | _____ | _____ | _____ |
| 2. Does the proposed design change add any electrical system or portion of an electrical system credited for accident mitigation component where the equipment is located in a harsh environment? | _____ | _____ | _____ |
| 3. Does the proposed design change alter the electrical portion of any accident mitigating or monitoring system (including cable and interfaces) located in an area where the environment is affected by an accident? | _____ | _____ | _____ |
| 4. Does the proposed design change credit any electrical system or portion thereof which is located in a harsh environment, which has not previously been credited for accident mitigating or monitoring? | _____ | _____ | _____ |
| 5. Does the proposed design change alter the operating time during any phase of the accident when the device is called on to function, or alter the time during of operation? | _____ | _____ | _____ |
| 6. Does the proposed design change the accuracy requirements of any instrument credited during or following an accident, including the R.G. 1.97 instruments, where the instrument is located in a harsh environment? | _____ | _____ | _____ |
| 7. Does the proposed design change alter the physical arrangement or boundary of any EQ Zone, including doors, hatches, ductwork, piping or electrical penetrations and structural walls, which could affect the basis of the HELB analysis? | _____ | _____ | _____ |

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
8. Does the proposed design change affect area ventilation flows:	_____	_____	_____
a. open or seal flow paths in boundary?	_____	_____	_____
b. change duct configuration (i.e., duct size, routing, GRDs)?	_____	_____	_____
c. change duct velocity at fire dampers?	_____	_____	_____
d. change duct velocity at elbow turning vanes?	_____	_____	_____
e. change duct velocity at FES, silencers, or RS?	_____	_____	_____
f. change supply air temperature?	_____	_____	_____
9. Does the proposed design change revise area design environmental parameters (maximum/minimum temperature, relative humidity or pressure for normal or abnormal modes)?	_____	_____	_____
10. Does the proposed design change increase or decrease area heating/cooling loads?	_____	_____	_____
a. electrical equipment loads?	_____	_____	_____
b. control equipment loads?	_____	_____	_____
c. lightning loads?	_____	_____	_____
d. cable loads?	_____	_____	_____
e. motor loads (operating bhp or nameplate Hp increase)?	_____	_____	_____
f. piping loads (line temperature increases, insulation thickness decrease or removal, size increase, length increase)?	_____	_____	_____
g. pipe support loads (line temperature/size, support type, number of supports)?	_____	_____	_____

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
h. piping valves (temperature increase, size increase, quantity increase)?	_____	_____	_____
i. transmission loads (room construction)?	_____	_____	_____
j. number of people in area?	_____	_____	_____
k. mechanical equipment (tanks/vessels temperature, insulation, quantity)?	_____	_____	_____
l. ventilation flows?	_____	_____	_____
m. steam or water leaks?	_____	_____	_____
12. Does the proposed design change affect HVAC equipment performance?	_____	_____	_____
a. fans (flow temperature, pressure, speed, blade setting)?	_____	_____	_____
b. coils (air/water flows, air/water temperature, airside/waterside fouling)? (This includes foreign material spilled and hardened on the face of a coil or equipment located in front of and blocking an HVAC duct.)	_____	_____	_____
c. refrigeration equipment (condenser/evaporator operating conditions, refrigeration piping)?	_____	_____	_____
d. filters (flow, loading)?	_____	_____	_____
13. Does the proposed design change affect the amount of H ₂ released to space (i.e., batteries)?	_____	_____	_____
14. Does the proposed design change revise the use for the area?	_____	_____	_____
15. Does the proposed design change affect the quantity/type of hazardous materials stored in space?	_____	_____	_____

Modification Screening Checklist

		<u>No</u>	<u>Yes</u>	<u>Initials</u>
16.	Does the proposed design change affect HVAC system or equipment instrument setpoints? (Electrical Department DER)	_____	_____	_____
a.	time delay relays?	_____	_____	_____
b.	flow controllers, switches, transmitters, relays?	_____	_____	_____
c.	temperature controllers, switches, transmitters, relays?	_____	_____	_____
d.	pressure controllers, switches, transmitters, relays?	_____	_____	_____
e.	humidity controllers, switches, transmitters, relays?	_____	_____	_____

Modification Screening Checklist

Seismic Qualification

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-11.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the design change provide for the installation of the new Seismic Category I structures, systems, or components?	_____	_____	_____
2. Does the design change provide for the installation, replacement modification, or removal of equipment which could effect the seismic response of Seismic Category I structures, systems, or components?	_____	_____	_____
3. Does the design change alter the state or condition during normal or accident scenarios for previously qualified equipment?	_____	_____	_____
4. Does the design change modify or alter the mounting condition of existing Seismic Category I equipment?	_____	_____	_____

Modification Screening Checklist

Radiological Environment

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-12.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Will the change cause an increase or potential increase in the amount of radioactive airborne effluents or liquid effluents, or significantly alter the nuclide mix of such effluents?	_____	_____	_____
2. Will the change result in a new radioactive liquid or gaseous discharge point, or decrease the ability to sample or monitor existing release paths?	_____	_____	_____
3. Will the change significantly increase (for example, greater than five per year) the number of solid radwaste shipments per year?	_____	_____	_____
4. Will the change cause an increase in the direct or scattered dose rate at the site boundary greater than 0.1 mrem/year?	_____	_____	_____
5. Will the change, in the judgment of the individual performing the review, constitute an increased radiological environmental impact for reasons not already considered above?	_____	_____	_____

Modification Screening Checklist

Non-Radiological Environment

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-13.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the proposed design/Procedure alter the water quality characteristics regulated by NPDES permit? Increases in these characteristics that exceed permit conditions require environmental review.	_____	_____	_____
2. Does the proposed design change/procedure modify water discharges under NPDES permit and their Discharge Serial Numbers? New discharges created by the proposed change require environmental review. Modifications to existing discharges require environmental evaluation to determine whether an environmental review is required.	_____	_____	_____
3. Does the proposed change alter the type or amount of fossil fuel burned?	_____	_____	_____
4. Does the proposed change create a source of air pollution?	_____	_____	_____
5. Does the proposed change involve use of a volatile chemical?	_____	_____	_____
6. Does the proposed change involve the use, storage, handling or disposal of a chemical product at variance with the BMP?	_____	_____	_____
7. Does the proposed change involve the generation, use, storage, or disposal hazardous materials, hazardous wastes, toxic substances, or other environmentally regulated matter?	_____	_____	_____
8. Does the proposed change involve a construction site area greater than five acres?	_____	_____	_____
9. Does the proposed change involve any other known environmental issues or regulations?	_____	_____	_____

Modification Screening Checklist

Station Blackout

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-14.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Will the change alter the design or operation of any SBO equipment? SBO equipment is identified in the Production Maintenance Management System (PMMS) Database?	_____	_____	_____
2. Will the change potentially impact the operation of any SBO equipment (i.e., non-SBO equipment potentially affecting SBO equipment operation)?	_____	_____	_____
3. Will the change alter the determination of dominant areas of concern or impact the results of analysis which determined dominant areas of concern (i.e., increase the area temperature)?	_____	_____	_____

Modification Screening Checklist

Control Panel Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-15.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the proposed modification occur in the control room or at local panels?	_____	_____	_____
2. Does the proposed modification involve the installation or change of equipment that restricts operator or maintenance personnel movement at local panels or change to the communications equipment at local panels?	_____	_____	_____
3. Does the proposed modification involve the location, layout and capability of the user-computer interface (access) devices?	_____	_____	_____
4. Does the proposed modification involve the change of information or display characteristics of any system?	_____	_____	_____

Modification Screening Checklist

Piping Design

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-16.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does this design change involve a piping arrangement change (i.e., new pipe, rerouting of existing pipe, or complete or partial deletion of piping)?	_____	_____	_____
2. Does this design change involve a permanent change in piping inventory (for example, steam service to water service)?	_____	_____	_____
3. Does this design change involve an addition, deletion or modification of any in-line component?	_____	_____	_____
4. Does this design change involve a change in orientation of an existing in-line component?	_____	_____	_____
5. Does this design change involve a change in piping material or wall thickness?	_____	_____	_____
6. Does this design change involve a change in piping system design parameters or classification (i.e., Operating/Design Temperature or Pressure; Code Class)?	_____	_____	_____
7. Does this design change involve the addition, removal or modification of insulation on piping?	_____	_____	_____
8. Does this design change involve the addition, removal or modification of lead shielding supported by piping.	_____	_____	_____
9. Does this design change involve the addition, removal, modification of any piping appurtenance supported by existing piping.	_____	_____	_____

Modification Screening Checklist

Setpoint Database

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-17.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the design change add, delete or change any setpoint in the Master Setpoint Index (MSI) database?	_____	_____	_____
2. Does the design change reference information in the MSI such as database description, type of setpoint description, controlling department, responsible person, or mechanism of control?	_____	_____	_____
3. Does this modification alter the loading sequence on any electrical bus?	_____	_____	_____
4. Does this modification revise a relay setting or alter, add or delete in any way a protective device (i.e. fuse, breaker, undervoltage, under frequency tol, etc.)?	_____	_____	_____
5. Does the modification alter, add, or delete any instrumentation?	_____	_____	_____

Modification Screening Checklist

Hazards/HELB

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-18.

- | | <u>No</u> | <u>Yes</u> | <u>Initials</u> |
|--|-----------|------------|-----------------|
| 1. Does the modification alter or add any structures or equipment to Category I buildings, structures, or equipment? | _____ | _____ | _____ |
| 2. Does the modification potentially violate established boundaries in Category I and II structures causing communication with adjacent Category I structures. | _____ | _____ | _____ |

If the answers to the above questions are "No," the review is complete; no further evaluation is necessary and completion of the remaining questions is not required. If the response to any of these questions is "Yes," continue to respond to the following questions.

- | | | | |
|---|-------|-------|-------|
| 3. Does this modification alter the energy level (i.e., operating temperature, fluid quality, or pressure) of any fluid system during an operating condition? | _____ | _____ | _____ |
| 4. Does this modification introduce a new fluid or gas system or relocate an existing fluid or gas system? | _____ | _____ | _____ |
| 5. Does this modification introduce a new source or modify an existing source of a potential missile generated from a high energy system (e.g., valve stems which are not backseated, valve body to bonnet connection hardware, thermowell, incore detector)? | _____ | _____ | _____ |
| 6. Does this modification introduce a new piece of rotating equipment? | _____ | _____ | _____ |
| 7. Does this modification alter the location, orientation, rotational energy, or casing of any rotation equipment? | _____ | _____ | _____ |
| 8. Does this modification introduce or relocate a safety related component or system? | _____ | _____ | _____ |

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
9. Does this modification introduce any equipment with anchorage that has not been specifically designed to withstand seismic loads?	_____	_____	_____
10. Does this modification introduce any seismically anchored component or system which is to be installed within two inches of any seismically anchored component or system?	_____	_____	_____
11. Does the modification introduce or relocate a safety-related component or system within six inches of nonseismically anchored component or system?	_____	_____	_____
12. Does this modification introduce or relocate a safety-related component which is potentially in the path of a nonseismically anchored gravity missile (i.e., nonseismic component or system which may fall and impact the safety-related component)?	_____	_____	_____
13. Does this modification alter, extend, or degrade any barriers, seals, etc., designed to contain or mitigate the environmental effects of a high energy line break.	_____	_____	_____

Modification Screening Checklist

Fire Protection

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-19.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Fire Barriers			
- Are changes proposed (including penetrations) to any fire barriers such as floors, walls, or ceilings enclosing separate fire areas or will any existing penetration be modified/abandoned?	_____	_____	_____
- Are changes proposed (modification, removal) to any integral component of any fire barrier (doors, door frames, and assemblies, dampers, structural steel supports, hatches, steel plates, marine boards, radiant energy shields, curbs)?	_____	_____	_____
- Will proposed changes modify the technical nature of the surveillance or periodic test procedures for fire barriers and their components (doors, dampers, penetration seals) or fire response?	_____	_____	_____
2. Combustibles			
- Are changes proposed that will modify combustible loading (increase or decrease)?	_____	_____	_____
- Will the configuration of the combustibles be modified?	_____	_____	_____
- Is non-IEEE 383 qualified cable being added.	_____	_____	_____
- Is PVC insulated cable being added.	_____	_____	_____

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
3. Detection			
- Are changes proposed that will modify any of the plant's fire detection systems, including quantity, type, circuitry, detector location and spacing, and sensitivity?	_____	_____	_____
- Are changes proposed to structures, cable trays, or ventilation ducts that will impact the performance of any detection system?	_____	_____	_____
- Will the proposed changes cause air velocities or directions to change, or introduce heat producing device in an area containing fire or smoke detectors? For example, the proposed change replaces an existing component with one which includes a self-contained forced air cooling system.	_____	_____	_____
- Will proposed changes modify the technical nature of the surveillance or periodic test procedures for the plant's fire detection systems or fire response?	_____	_____	_____
4. Suppression			
- Are changes proposed that will modify any of the plant's fire suppression systems? Suppression systems include automatic sprinklers, water spray systems, foam systems, Halon suppression systems, CO ₂ suppression systems, water supplies (fire pumps, water mains), fire hose stations (houses, carts, etc.), hydrants and portable extinguishers.	_____	_____	_____
- Are any structures, cable trays, ventilation ducts, piping or other components being installed or modified which could impact the performance of a fixed fire suppression system (both manual and automatic) or impact the ability of the fire brigade to access and utilize manual fire suppression equipment particularly under adverse emergency conditions?	_____	_____	_____

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
- Will proposed changes modify the technical nature of the surveillance or periodic test procedures for plant's fire suppression systems or fire response?	_____	_____	_____
5. Ventilation			
- Will the proposed change alter the location or type of air supply or discharge registers or other openings intended for air circulation in a room or area containing smoke or fire detectors; or change the velocity or quantity of air being supplied to or discharged from a room or area containing smoke or fire detectors.	_____	_____	_____
- Are any ventilation systems being modified such that fire barriers are penetrated and consideration of additional fire dampers is necessary?	_____	_____	_____
6. Fire Wrap			
- Are changes proposed that will in any way modify the existing configuration and type of cable tray, conduit, cable shaft, panel, equipment, or ventilation duct wrap, including supports.	_____	_____	_____
- Will any existing wrap be abandoned?	_____	_____	_____
- Will proposed changes modify the technical nature of the surveillance or periodic test procedures for fire wrap?	_____	_____	_____
7. RCP Oil Collection			
- Are changes proposed that will modify the performance, capacity, or location of the Reactor Coolant Pump Oil collection system?	_____	_____	_____

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
8. Structural Steel			
- Are changes proposed that will in any way modify the fire coating to structural steel?	_____	_____	_____
9. General Plant Arrangement			
- Will the proposed change alter the access to or limit the range of manual fire fighting equipment by modifying the general arrangement of an area such as installing floor mounted equipment which could inhibit fire brigade efforts or fire fighting equipment?	_____	_____	_____
- Do the proposed changes renovate an area for a different occupancy such as enclosing or fencing off an area for use as a storage space or establishing a personnel work station or office, etc.?	_____	_____	_____

Modification Screening Checklist

Licensing

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-20.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Is there an Unreviewed Safety Question?	_____	_____	_____
2. Is there an Unreviewed Environmental Impact?	_____	_____	_____
3. Is a change to the EPP required?	_____	_____	_____
4. Is an NPDES Permit change required?	_____	_____	_____
5. Is any other DEP or EPA Notification, Registration, or Permit required?	_____	_____	_____
6. Is a change to Technical Specification prior to or after operations?	_____	_____	_____
7. Is there a decrease in the effectiveness of the Security Plan?	_____	_____	_____
8. Is there a decrease in the effectiveness of the Emergency Plan?	_____	_____	_____
9. Is a change to the basis of an exemption to regulations required?	_____	_____	_____
10. Will the design change result in change to the Final Safety Analysis Report?	_____	_____	_____
11. Is a change to the Technical Requirements manual required?	_____	_____	_____
12. Does the change affect Licensing Commitments?	_____	_____	_____

Modification Screening Checklist

PRA

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-21.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Could the modification change event frequencies assumed in the unit PRA analysis?	_____	_____	_____
2. Could the Modification impact On-Line Maintenance Risk Assumptions?	_____	_____	_____
3. Could the modification change the Maintenance Rule significance or scope?	_____	_____	_____

Modification Screening Checklist

Quality Software

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the applicable discipline verifier for review in accordance with CK-MP3-03-22.

- | | <u>No</u> | <u>Yes</u> | <u>Initials</u> |
|---|-----------|------------|-----------------|
| 1. Does the proposed design include or effect any computer program (i.e., programmable set of instructions) that is processed by a computer (e.g., main frame computer, minicomputer, microprocessor, embedded processor, programmable devices, etc.) that could be Quality Software, Category I Quality Software, Controlled Software, or a Computerized Quality Database? | _____ | _____ | _____ |
| 2. Will the change involve a plant process computer (i.e., any real-time sensor-based monitoring or control computer system that assists nuclear unit operation. Included are the following: systems traditionally known as "unit process computer;" special purpose computer, minicomputer or microprocessor computer-based instrumentation monitoring and process control systems; and station security systems). | _____ | _____ | _____ |
| 3. Does the proposed design add, delete, or modify any input or output point for a plant process computer? | _____ | _____ | _____ |

Modification Screening Checklist

Training Procedures

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the ORG for review in accordance with PI-MP3-06.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Does the design change add or delete components (not parts) or change the physical orientation of plant equipment such that the Operator's response could be impacted by the modification?	_____	_____	_____
2. Does the design change add or delete components (not parts) that will affect equipment operational practice, surveillance's, maintenance practices or testing practices?	_____	_____	_____
3. Does the design change alter or modify power supplies, change controls, operational characteristics or indication of components or systems, affect equipment operational procedures, surveillance procedures, maintenance practices or testing practices?	_____	_____	_____
4. Does the design change add, delete, or modify power supplies, equipment, actuators, or setpoints such that a simulator modification(s) will be required?	_____	_____	_____

Modification Screening Checklist

Emergency Preparedness Program

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the ORG for review in accordance with PI-MP3-06.

- | | <u>No</u> | <u>Yes</u> | <u>Initials</u> |
|--|-----------|------------|-----------------|
| 1. Does the modification alter/add equipment which has the potential to impact the emergency plan, procedures, facilities, equipment, and software (e.g., OFIS)? | _____ | _____ | _____ |

Modification Screening Checklist

Plant Procedures

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the ORG for review in accordance with PI-MP3-06.

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
1. Will the proposed design change test plan require preservice or inservice testing, inspection or base line data generation etc.? (i.e. is it within the ASME class 1, 2 or 3 boundary)	_____	_____	_____
2. Will the proposed design change require the generation of ASME Section XI repair packages per NGP 7.05?	_____	_____	_____
3. Will the proposed design change impact the Erosion/Corrosion program? (i.e. flow, pressure, piping geometry, temperature, water chemistry on carbon steel components)	_____	_____	_____
4. Does this modification add or delete a motor or MOV or alter the control circuit to an existing motor or MOV?	_____	_____	_____
5. Will the proposed design change impact an MOV? (i.e. flow, temperature, pressure, electrical, thermal overloads, stroke time)	_____	_____	_____
6. Will the proposed design change impact the Check Valve program? (i.e. modify, replace, repair, add, delete, alter flow conditions or change location of a check valve)	_____	_____	_____
7. Will the proposed design change impact Containment Configuration Testing (Appendix J)?	_____	_____	_____
8. Will the proposed design change impact the Maintenance Rule Program? (i.e., maintenance requirements, or changes to program scope documents such as an addition or deleting of a MR SSC or change of functions.)	_____	_____	_____

Modification Screening Checklist

	<u>No</u>	<u>Yes</u>	<u>Initials</u>
9. Will the proposed design change impact the Maintenance requirements of any new or existing Plant Equipment? (i.e., equipment accessibility, maintainability, proper design to accommodate predictive maintenance technologies, etc.)	_____	_____	_____
10. Does the modification affect equipment that is referenced (or needs to be referenced) in any Emergency Operating Procedure?	_____	_____	_____
11. Does the modification affect equipment that is referenced (or needs to be referenced) in any Operating Procedure? (AOP, OP, ARP, ST, IST, etc.)	_____	_____	_____
12. Does the modification affect equipment that is referenced (or needs to be referenced) in any Chemistry Procedure?	_____	_____	_____
13. Does the modification affect equipment that is referenced (or needs to be reference) in any Maintenance Procedure?	_____	_____	_____
14. Does the modification affect equipment that is referenced (or needs to be referenced) in any I&C Procedure?	_____	_____	_____
15. Does the modification affect equipment that is referenced (or need to be referenced) in any other procedures?	_____	_____	_____

Modification Screening Checklist

Configuration

Answer each of the questions below yes or no. If any of the answers are yes, submit a copy of the screening form and modification package to the ORG for review in accordance with PI-MP3-06.

- | | <u>No</u> | <u>Yes</u> | <u>Initials</u> |
|--|-----------|------------|-----------------|
| 1. Does the design change make any physical changes to the system configuration? | _____ | _____ | _____ |