Northeast Utilities
Millstone - Unit 3

Independent Corrective Action Verification Program
(ICAVP)

Modification Review Checklist

CK-MP3-03-13, Rev. 0

Non-Radiological Environmental Review Checklist

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

IMPLEMENTATION

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

Non-Radiological Environmental Review Checklist

Instructions

This checklist supplements the modification review process described in PI-MP3-03. Use of this checklist shall be as follows:

1. The Verifier(s) shall complete the Non-Radiological Environmental Review Checklist.

2. The Verifier shall perform a technical review of the modification package and 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 the Non-Radiological Environmental Review Checklist.

3. The Verifier shall generate a discrepancy report for any discrepancies identified during the review in accordance with Section 5.7 of PI-MP3-03.

4. When the review is completed, the Verifier shall sign and date the cover sheet of the Non-Radiological Environmental Review Checklist and forward the completed checklist to the Lead Verifier.

Non-Radiological Environmental Review Checklist

		Satisf	UnSat	N/A	Comment No.
1.	**Pollutants**				
1.1	Did the modification effect the ambient air quality of the plant from the following pollutants?				
	a) Sulfur Dioxide	☐	☐	☐	_____
	b) Particulate Matter	☐	☐	☐	_____
	c) Nitrogen Oxides	☐	☐	☐	_____
	d) Carbon Monoxide	☐	☐	☐	_____
	e) Ozone	☐	☐	☐	_____
	f) Lead	☐	☐	☐	_____
1.2	Were run-on and runoff controls necessary? (The design could be required to accommodate up to a 100-year, 24-hr rainfall event)	☐	☐	☐	_____
1.3	Did the modification account for the following prohibited discharges?				
	a) PCBs	☐	☐	☐	_____
	b) Oil spills	☐	☐	☐	_____
	c) Cooling tower maintenance chemicals (except for chlorine, chromium, phosphorous and zinc which have effluent limits)	☐	☐	☐	_____
1.4	Was a spill prevention control and countermeasure plan (SPCC Plan) needed for this modification?	☐	☐	☐	_____
1.5	Were discharges avoided or minimized using other alternatives where possible?	☐	☐	☐	_____
1.6	Were any new pollutants added to the plant's emissions?	☐	☐	☐	_____

Non-Radiological Environmental Review Checklist

		Satisf	UnSat	N/A	Comment No.
1.7	Did the modification effect the performance testing and/or continuous monitoring of pollutants at the station?	☐	☐	☐	_____
2.	**Solid Waste**				
2.1	Did the modification obtain the needed permits for solid waste? (Solid waste typically includes any garbage, refuse, sludge or discarded material including solids, semi-solids, liquids, or contained gases.)	☐	☐	☐	_____
2.2	Did the modification allow for the storage of wastes? (Storage of wastes is prohibited to the extent that they could cause a nuisance or health hazard.)	☐	☐	☐	_____
2.3	Did the modification generate any hazardous waste? (hydrazine, etc.)	☐	☐	☐	_____
2.4	Did the modification transport any hazardous waste?	☐	☐	☐	_____
2.5	Were dumping permits needed for this modification?	☐	☐	☐	_____
2.6	Did the modification store any hazardous waste?	☐	☐	☐	_____
2.7	Was a discharge of dredged or fill material permit needed? (A dredged and fill material discharge permit is intended to protect water quality and the environment (impact on municipal water supplies, shellfish beds, fishery areas, wildlife, or recreation areas.)	☐	☐	☐	_____
3.	**Other**				
3.1	Was the groundwater effected by this modification?	☐	☐	☐	_____
3.2	Due to the modification, are groundwater monitoring wells needed? (Usually a minimum of one upgradient well and two down-gradient wells are required)	☐	☐	☐	_____

Non-Radiological Environmental Review Checklist

		Satisf	UnSat	N/A	Comment No.
3.3	Was an Environmental Impact Statement (EIS) needed for modification?	☐	☐	☐	_____
3.4	Did the modification affect any wetlands?	☐	☐	☐	_____
3.5	Did the modification affect any active spawning areas?	☐	☐	☐	_____
3.6	Did the modification affect any aquatic species due to discharges?	☐	☐	☐	_____
3.7	Did the modification affect waterfowl breeding areas due to discharges?	☐	☐	☐	_____
3.8	Did the modification affect the potable water at the point of used in the plant? (the levels of inorganic chemicals, organic chemicals, turbidity, bacteria, and radioactive materials must be checked in the plant's potable water supply, also secondary drinking water standards must be meted, appearance, odor, and taste.)	☐	☐	☐	_____
3.9	Did the modification affect the height of the stack?	☐	☐	☐	_____
4.	**Water Intake and Return**				
4.1	Did the modification have an affect on fish impingement and entrainment?	☐	☐	☐	_____
4.2	Did the modification change the impact of thermal effluent from the plant?	☐	☐	☐	_____
5.	**Plant Ventilation**				
5.1	Did the Modification bypass HVAC systems?	☐	☐	☐	_____
5.2	Did the modification cause any leakage from a HVAC system?	☐	☐	☐	_____

Non-Radiological Environmental Review Checklist

		Satisf	UnSat	N/A	Comment No.
5.3	Did the modification create any new airborne effluent flow paths from the plant?	☐	☐	☐	_____
5.4	Are ducts carrying potentially contaminated air operated at negative pressure where they pass through clean areas?	☐	☐	☐	_____
5.5	Has hard-piping to HVAC of contaminated systems relief valves and vents been avoided?	☐	☐	☐	_____
6.0	**Piping**				
6.1	Was the exhaust from pressure relief valves designed so it would not be released from the plant untreated or monitored?	☐	☐	☐	_____
6.2	Were tank vents designed so they would not vent from the plant untreated or unmonitored?	☐	☐	☐	_____
6.3	Were tank over flows designed so the over flow would be contained in the plant (e.g. the release from the tank would treated and monitored before released from the plant)?	☐	☐	☐	_____
6.4	Have berms, runoff ponds, etc., been provided for outdoor tanks?	☐	☐	☐	_____
6.5	Did the modification create any new liquid effluent flow paths from the plant?	☐	☐	☐	_____

Non-Radiological Environmental Review Checklist

Comment Sheet

Comment No.	Comment