Connecticut Yankee Atomic Power Company

Date of Distribution: 04-05-05

Notice of Receipt of **ISFSI Emergency Operating Procedures**

Change No.: 05-02

To: Document Control Desk (code Z)
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(EO-1, EO-5 and EO-6 only)

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INSERT: ~~Index page 1 of 1, dated 04-05-05~~ R0 4/5/05
EO-6, rev 1, effective 04-05-05

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AX45

ATTACHMENT B

CONNECTICUT YANKEE ATOMIC POWER COMPANY

ISFSI PROCEDURE

Non-Emergency Event Assessment

EO-6

Revision 1

Preparer: [signature] Date: 4/4/05

10CFR50.59 / 10CFR72.48 ASSESSMENT		
10CFR50.59 SCREEN REQUIRED?	☐ YES	☒ NO
10CFR50.59 EVALUATION REQUIRED (NO._____)	☐ YES	☒ NO
10CFR72.48 SCREEN REQUIRED?	☐ YES	☒ NO
10CFR72.48 EVALUATION REQUIRED (NO._____)	☐ YES	☒ NO

REVIEWER SECTION

QUALITY ASSURANCE REVIEW: SIGNATURE NA [signature] 4/4/05 DATE:_____

RADIATION PROTECTION REVIEW: SIGNATURE NA [signature] 4/4/05 DATE:_____

TECHNICAL REVIEW: SIGNATURE [signature] DATE: 4-5-05

INDEPENDENT SAFETY REVIEW: (As Applicable)

SIGNATURE: [signature] DATE: 4/5/05

APPROVAL SECTION

ISFSI MANAGER/DESIGNEE SIGNATURE/DATE: [signature] 4/5/05

TFI #_____

Non-Emergency Event Assessment

1.0 PURPOSE

This procedure provides guidance for classifying, responding to and reporting non-emergency incidents at the ISFSI and the Power Plant area in an accurate manner. Non-emergency incidents as used in this procedure are incidents that are not Unusual Events which initiate entry into the Emergency Plan.

2.0 SCOPE

2.1 For incidents at the ISFSI, the scope of this procedure begins at the point that an incident has already been assessed using ISFSI Procedure EO-5 and found to not meet the criteria of an Unusual Event. In this case, this procedure provides direction to the ISFSI Shift Supervisor (ISS) for the continuing response to, classification, and reporting of the incident.

2.2 For incidents at the Power Plant area, the response to an incident is made by decommissioning personnel using applicable plant documents. As part of that process, the ISFSI Shift Supervisor (ISS) is contacted as applicable, based on the nature of the incident. The scope of this procedure begins when the ISS is contacted. The ISS then uses this procedure for the classification and notifications to outside agencies only.

3.0 DEFINITIONS

3.1 Emergency Response Organization (ERO) consists of on-shift personnel at the ISFSI, personnel performing decommissioning work at the Power Plant area and other personnel who are called in as needed and response to declared emergencies. The ERO, and the administrative measures to establish and maintain the emergency response capability, are described in ISFSI Procedure EO-1.

3.2 An Emergency Spill is defined as a chemical release that (1) presents an environmental hazard by releasing directly to the environment, or (2) a safety or health hazard to personnel, a potential exposure condition to a hazardous material greater than the Permissible Exposure Limit for that material, or a fire or explosion hazard.

3.3 An Incidental Spill is defined as a chemical release which does not present an environmental, safety or health hazard, it can be controlled or absorbed at the time of the spill, using normally available resources and protective equipment. This spill does not exceed established Reportable Quantity thresholds, nor is it released directly to the environment.

3.4 Incident – the occurrence of a potentially serious event that requires timely assessment and an appropriate timely response. Based on the assessment, notification to state and NRC officials may be required, and a response by the Emergency Response Organization may be required.

3.5 NPDES (National Pollutant Discharge Elimination System) Exceedance – There are two levels of reportability for NPDES exceedances: a two hour report and a lower severity report within 30 days.

A. In Excess of Maximum Daily Limit - Two Hour Report to the State Department of Environmental Protection.

The following NPDES exceedances are reportable to the State Department of Environmental Protection (DEP) within 2 hours by commercial telephone. The requirement for 2 hour reporting is bounded by a working day (0800 - 1600): that is, if the exceedance occurs on a back shift or weekend, the telephone call shall be made to the State by 1000 the following work day. . The ISS shall make the call and provide information on the exceedance. Refer to Attachment 1 for telephone number. These events also require a 5 day written report to be submitted to the DEP.

1. Any NPDES exceedance of a defined maximum daily limit (e.g., chlorine, etc.). An informational call is also necessary to the NRC for an exceedance in excess of the maximum daily limit.

2. Exceedance of any other permitted limit by a factor of 1.5 or more.

B. Incidental - Thirty Day Report to the State DEP

NPDES related incidents which fall below the previously listed severity levels shall be explained to the State DEP in the routine Monthly Discharge Monitoring Report.

No call is necessary to the NRC for an incidental NPDES exceedance or for an insignificant oil or hazardous chemical spill.

C. The ISFSI Manager (or designee) should also assess these incidents with respect to Resource, Conservation and Recovery Act (RCRA) applicability and the higher tiered chemical event descriptions in this procedure.

3.6 OSHA (Occupational Safety & Health Act) Notification - Work-related incidents resulting in the death of an employee or the hospitalization (in-patient) of three or more employees must be verbally reported to OSHA within eight hours of the incident. If an incident does not initially meet the reporting criteria, but, within 30 days, does meet the reporting criteria, then OSHA must be notified within eight hours of obtaining the information.

3.7 Superfund Amendments and Reauthorization Act (SARA) Notification (Community Right to Know Law) - Notification to the local community when a chemical is spilled to the environment in a quantity which exceeds its Federal Reportable Quantity (RQ). Notification requires communities to determine if local evacuation is required.

3.8 Spills to Receiving Water - Spills originating from the station that produce a visible sheen on receiving water. Receiving water refers to the Connecticut River and discharge canal. Oil sheens produced after rainstorms from normal and routine operations are not considered spill events.

3.9 Unmonitored Release - is any release that does not have a continuously operating representative monitor capable of providing representative measurements AND does not have a grab sample taken in accordance with Technical Specifications.

3.10 Unplanned Release - is any release for which a discharge permit was not prepared, or a release that exceeds the conditions of the applicable permit (e.g., minimum dilution flow, maximum discharge flow, alarm setpoint reached w/o release isolation).

4.0 REFERENCES

4.1 Connecticut Yankee Emergency Plan

4.2 Code of Federal Regulations, 10CFR50, Appendix E

4.3 Code of Federal Regulations, 10CFR72

4.4 CY Quality Assurance Program (CYQAP)

4.5 ISFSI Procedure AD-16, "ISFSI Personnel Training and Qualifications."

4.6 ISFSI Procedure EO-1, "Emergency Planning Administration."

4.7 ISFSI Procedure EO-2, "Response to Off-Normal Operations."

4.8 ISFSI Procedure EO-3, "Response to Accidents."

4.9 ISFSI Procedure EO-4, "Response to Natural Phenomena."

4.10 ISFSI Procedure EO-5, "Emergency Plan Implementation."

4.11 40CFR302, Designation, Reportable Quantities, and Notification.

4.12 OSHA 1910.120(q)(3)(vii)- Hazardous Waste Operations and Emergency Response Standard.

4.13 ISFSI Procedure FP-4, "ISFSI Fires and Fire Alarms."

4.14 ISFSI Procedure SP-17, "Security Special Reports."

4.15 ISFSI Procedure SP-20, "Contingencies – Response Event."

5.0 RESPONSIBILITIES

5.1 The ISFSI Manager (or designee) has the overall responsibility for the appropriate response to incidents as follows:

5.1.1 Ensure the ISFSI Shift Supervisor (ISS) is adequately trained to assess the incident and direct the incident response as appropriate in accordance with this procedure.

5.1.2 Ensure that adequate personnel and equipment resources are available to implement the actions of this procedure.

5.1.3 Assist the ISS during the implementation of this procedure as requested.

5.2 The ISS is responsible for performing the actions specified for the ISS in this procedure, including the following:

5.2.1 Perform the initial and ongoing assessment and notifications related to an incident at the ISFSI.

5.2.2 Perform the notifications related to an incident at the Power Plant area when notified by D&D personnel of incidents there.

5.2.2 For all incidents, responsibilities include command and control of the ERO and contacting additional personnel as necessary.

5.2.3 For the ISFSI, the ISS shall function as the Safety Officer during an incident that involves an oil spill, release of flammable gas, or toxic/hazardous chemical spill. OSHA 1910.120 defines the "Safety Officer" as someone knowledgeable in the operations being implemented at the scene, with specific responsibility to identify and evaluate hazards and provide direction with respect to the safety of operations for the emergency at hand.

5.3 ERO personnel shall be responsible to perform the actions as directed by the ISS.

5.4 The ISFSI Security Force reports to the ISS and is responsible for maintaining facility security in accordance with the Security Plan during an incident, and for the following:

- Providing accountability of personnel at the ISFSI.
- Ensuring/facilitating the evacuation and relocation of site personnel as directed by the ISS.

5.5 Other ISFSI/plant personnel that are available are responsible for conducting initial actions to stabilize the incident, including any necessary corrective actions or on-site protective actions, dose assessments, first aid and limited fire fighting, as directed by CY Management.

5.6 State and Local Government Response - There is no response required. Government response is expected to be limited to recording the notification of the emergency, periodically receiving updated information on the emergency, and coordinating public information news releases, if any. CT DEP personnel might respond by coming to the CY site. Upon request, local government agencies (i.e., fire companies, police, and ambulances) will respond to the ISFSI or the Power Plant area in the event of an emergency. If required, provisions exist for the State of Connecticut to halt traffic on the roads leading to the site. The ISS has the authority to request such support if it is needed.

5.7 The Regulatory Affairs Manager is responsible for any follow-up written reports to state and federal agencies.

5.8 Other Organizations Providing Assistance - Assistance from other commercial companies/agencies may be required.

a) Letters of agreement have been developed to describe outside company and agency assistance and services, and are kept current to reaffirm assistance. The letters of agreement are listed in the Emergency Plan, Appendix B.

b) Contracted services may be needed in some situations and will be requested as required.

6.0 PROCEDURE

6.1 When notified of an incident at the Power Plant area, the ISS shall perform following:

- Obtain the information needed to provide for the assessment and reporting of the incident in accordance with Attachment 1.

- If it is a medical incident that has resulted in fatality or the hospitalization of three or more employees due to a work-related event at the site, refer to the relevant portion of Attachment 2, obtain the required information and make the report.

- If the incident is an Oil Spill, Chemical or Hazardous Substance Spill, proceed to Attachment 3 and perform the duties therein related to classification and reporting only (response actions other than classification and reporting will be by decommissioning personnel using applicable plant documents).

NOTE

For the remainder of Section 6.0 the actions are actions for the ISS applicable to incidents at the ISFSI only.

6.2 Perform notification in accordance with Sections 2 and 3 of Attachment 1.

6.3 If the incident is a medical emergency, proceed to Attachment 2.

6.4 If the incident is an oil spill, chemical or hazardous substance release, proceed to Attachment 3.

6.4 If the incident is a fire, proceed to ISFSI Procedure FP-4.

6.5 If the incident is security related, proceed to ISFSI Procedure SP-20, "Contingencies – Response Event."

6.6 Proceed to ISFSI Procedure EO-2, "Response to Off-Normal Operations," for any of the following incidents:

- Partial blockage of VCC air inlets.
- Failure of VCC temperature instrumentation.
- Ambient air temperature at the ISFSI <-40° F or >100° F.
- Small release of radioactive particulate from canister exterior.
- Degraded VCC thermal performance.

6.7 Proceed to ISFSI Procedure EO-3, "Response to Accidents," for any of the following incidents:

- Explosion or fire at the ISFSI.
- Full blockage of VCC air inlets.
- Cask drop up to 6".
- VCC tip over.

6.8 Proceed to ISFSI Procedure EO-4, "Response to Natural Phenomena," for any of the following incidents:

- Earthquake.
- Flood.
- Tornado or tornado driven missiles.

6.9 For all incidents, refer to Attachment 1 to determine the reporting requirements, and perform the required reporting.

6.10 Provide copies of all notifications to the Regulatory Affairs Manager who is responsible for any follow-up written reports to state and federal agencies.

7.0 SUMMARY OF CHANGES

7.1 Attachment 3, Page 1 of 8, added 4.0, renumbered remaining steps.
7.2 Attachment 3, Page 2 of 8, 9.0, clarification of response.

8.0 ATTACHMENTS

8.1 Attachment 1 - NRC and State Notifications
8.2 Attachment 2 - Response to a Medical Emergency
8.3 Attachment 3 - Response to Oil Spill, Chemical or Hazardous Substance Spill
8.4 Attachment 4 - Connecticut Department of Environmental Protection Spill Report Form
8.5 Attachment 5 - Release Exceeding Reportable Quantity Community Right-To-Know (SARA) Report Form
8.6 Attachment 6 - Reportable Liquid or Gaseous Releases

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SECTION 1.0 Classification and Reporting Requirements for Non-Emergency Events (NRC and State Notification is Required for each event on the following list)

The NRC classification for all Non-Emergency Events (i.e., any incident that does not rise to the level of an Unusual Event) is "none." The required timetable for NRC reporting requirements for Non-Emergency Events is contained in the following list.

The Non-Emergency Events contained in the following list are designated as 1-hour, 4-hour, 8 hour, or 24-hour reports in accordance with NRC regulations. State regulations require notification of 1-hour, 4-hour, 8-hour and 24-hour reports within one hour of the event occurrence, as is reflected in the following list. These events shall therefore be reported to the NRC immediately after notifying the State and within 1-hour.

The State of Connecticut Radiological Emergency Response Plan (RERP) requires that incidents be assigned a posture code at the time of classification. It also defines two classifications for non-emergency incidents: "General Interest Events" and "Radioactive Material Incidents". The "Posture Code" and "Classification" are on the attached list for each type of incident.

EVENT: TECHNICAL SPECIFICATIONS	CLASSIFICATION
ISFSI/Storage Cask Event: An action taken in an emergency that departs from a condition or a technical specification contained in a license or certificate of compliance issued under 10CFR72 when the action is immediately needed to protect the public health and safety and no action consistent with license or certificate of compliance conditions or technical specifications that can provide adequate or equivalent protection is immediately apparent.	Echo 4-hour report 10CFR72.75(b)(1) 10CFR72.75(g)

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EVENT: SERIOUS DEGRADATION OUTSIDE PLANT DESIGN BASIS	CLASSIFICATION
Any event that results in a major loss of emergency assessment capability, offsite response capability (e.g., significant portion of control room indication, Emergency Notification System, or offsite notification system), or offsite communications capability.	Echo 8-hour report 10CFR50.72(b)(3)(xiii)

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EVENT: NEWS RELEASE OR OTHER AGENCY NOTIFICATION	CLASSIFICATION
Any event or situation related to the health and safety of the public or on-site personnel, or protection of the environment for which a news release is planned or notification to other government agencies has been or will be made (i.e., strikes, police assistance, fires, bomb threats). Such an event may include an on-site fatality, inadvertent release of radioactively contaminated materials (i.e., contaminated tools), hospitalization of three or more employees.	Echo 4-hour report Also see Attachment 2 for OSHA notification of fatality of employee(s). 10CFR50.72(b)(2)(xi) * 10CFR72.75(b)(2)

*Events that occur at the ISFSI are reportable under 10CFR50 and 10CFR72. Events that occur on the site proper (excludes ISFSI) are reportable under 10CFR50 only.

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EVENT: SPENT FUEL STORAGE CASK	CLASSIFICATION
ISFSI/Storage Cask Event: A defect in any spent fuel or GTCC waste storage cask structure, system, or component which is important to safety.	Echo 8-hour report 10CFR72.75(c)(1) 10CFR72.75(g)
ISFSI/Storage Cask Event: A significant reduction in the effectiveness of any spent fuel or GTCC waste storage confinement system during use.	Echo 8-hour report 10CFR72.75(c)(2) 10CFR72.75(g)
An event that resulted in non-compliance with the packaging requirements of 10CFR71 for import or export of special nuclear material.	Echo 1 -hour report 10CFR110.50(a)(7)
ISFSI/Storage Cask Event: An event in which important safety equipment is disabled or fails to function as designed when: (i) The equipment is required by regulation, license condition, or certificate of compliance to be available and operable to prevent releases that could exceed regulatory limits, to prevent exposures to radiation or radioactive materials that could exceed regulatory limits, or to mitigate the consequences of an accident, and (ii) No redundant equipment was available and operable to perform the required safety function.	Echo 24-hour report 10CFR72.75(d)(1) 10CFR72.75(g)

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EVENT: RADIATION EXPOSURE / RADIOLOGICAL RELEASES	CLASSIFICATION
(A) Any event involving byproduct, source, or special nuclear materials possessed by the licensee that may have caused or threatens to cause: (1) An individual to receive: • A total effective dose equivalent of 25 Rems or more, OR • An eye dose equivalent of 75 Rems or more, OR • A shallow dose equivalent to skin or extremities of 250 rads or more, OR (2) The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake five times the annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operations, such as hot cells or process enclosures). It does not include planned special exposures.	ECHO Immediate notice (1 hour) via ENS 10CFR20.2202(a), 2205
(B) Any event involving loss of control of licensed material possessed by the licensee that may have caused or threatens to cause: (1) An individual to receive, in a period of 24 hours: (i) A total effective dose equivalent exceeding 5 Rems, OR (ii) An eye dose equivalent exceeding 15 Rems, OR (iii) A shallow dose equivalent to skin or extremities exceeding 50 Rems, OR	ECHO 24-hour notice 10CFR20.2202(b)

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EVENT: RADIATION EXPOSURE / RADIOLOGICAL RELEASES	CLASSIFICATION
(2) The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operations, such as hot cells or process enclosures). Does not include planned special exposures.	ECHO 24-hour notice 10CFR20.2202(b), 2205
(C) Any airborne radioactive release that, when averaged over a time period of 1 hour, results in concentrations in an unrestricted area that exceed 20 times the applicable concentration specified in Appendix B to part 20 (1-1-93 edition), Table 2, Column 1.	ECHO 4-hour report 10CFR50.73(a)(2)(viii)(A) - Satisfies 20.2203(a)(3)
(D) Any liquid effluent release that, when averaged over a time period of 1 hour, exceeds 20 times the applicable concentration specified in Appendix B to Part 20(1-1-93 edition), Table 2, Column 2, at the point of entry into the receiving waters (i.e., unrestricted area) for all radionuclides except tritium and dissolved noble gases.	ECHO 4-hour report 10CFR50.73(a)(2)(viii)(B) - Satisfies 20.2203(a)(3)
(E) Any release, gaseous or liquid, exceeding Technical Specifications.	ECHO 4-hour report 10CFR50.72 (b)(2) (xi) 10CFR50.73(a)(2)(i)(B) CT Statutes, Chapter 446, Section 22a-135

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EVENT: RADIATION EXPOSURE / RADIOLOGICAL RELEASES	CLASSIFICATION
(F) Any unplanned* or unmonitored** release AND exceeds any of the following criteria:	
1. Liquid release:	
• Any liquid effluent release (planned, unplanned, monitored or unmonitored) that, when averaged over a time period of 1 hour, exceeds 20 times the applicable concentration specified in Appendix B to Part 20(1-1-93 edition), Table 2, Column 2, at the point of entry into the receiving waters (i.e., unrestricted area) for all radionuclides except tritium and dissolved noble gases (See item (D) on previous page), OR	ECHO 4-hour report 10CFR50.73(a)(2)(viii) (B) - Satisfies 20.2203(a)(3)
• Any liquid release exceeding Technical Specifications. See item (E) on previous page.	ECHO 4-hour report 10CFR50.73(a)(2)(i)(B) CT Statutes, Chapter 446, Section 22a-135
*Note: Unplanned Release is any release for which a discharge permit was not prepared, or a release that exceeds the conditions of the applicable permit (e.g., minimum dilution flow, maximum discharge flow, alarm setpoint reached w/o release isolation).	
**Note: An Unmonitored Release is any release that does not have a continuously operating representative monitor capable of providing representative measurements AND does not have a grab sample taken in accordance with Technical Specifications.	

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EVENT: RADIATION EXPOSURE / RADIOLOGICAL RELEASES	CLASSIFICATION
(G) Any of the following events: 1. A radioactive release or spill to the environment or permeable land surface which is not in accordance with a permit, unit license, Technical Specifications or regulations AND is greater than or equal to Reportable Quantities (RQ) as identified in Attachment 6, OR 2. The discovery of a lost, discarded or abandoned sources of radionuclides greater than or equal to Reportable Quantities (RQ) as identified in Attachment 6, OR 3. Any release or spill to the environment, navigable waters or permeable land surface of mixtures of unkown composition in which the total activity released is greater than or equal to the RQ as identified in Attachment 6 of the lowest radionuclide in the mixture. Note: Any release within Technical Specifications will not exceed these limits.	ECHO 10CFR50.72(b)(2)(xi) Immediate notification (1 hour) to DEP Immediate notification to EPA National Response Center 40CFR302
(H) For any lost, stolen, or missing licensed material (i.e., source material, special nuclear material, byproduct material) in quantity (1000 times the quantity on Appendix C to part 20) under such circumstances that it appears to CY that an exposure could result to persons in unrestricted areas.	FOX 1-hour report 10CFR20.2201(a)(1)(i) 10CFR50.72(b)(2)(xi) 10CFR74.11(a) 10CFR70.52(b)
(I) For any lost, stolen or missing licensed material in a quantity greater than 10 times the quantity specified in Appendix C to Part 20	Fox 30-day report 10CFR20.2201(a)(1)(ii) 10CFR20.2201(b)
(J) Loss or theft or attempted theft of special nuclear material.	FOX 1-hour report 10CFR72.74(a) 10CFR70.52 10CFR73.71

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EVENT: RADIATION EXPOSURE / RADIOLOGICAL RELEASES	CLASSIFICATION
(K) Radioactive material transportation accident taking place in Connecticut (HNP material).	GOLF 4-hour report 10CFR50.72(b)(2)(xi) and 10CFR140.6 (Based on notifying the state)
(L) Any event requiring the transport of a radioactively contaminated person to an offsite medical facility for treatment.	ECHO 8-hour report 10CFR50.72(b)(3)(xii) * 10CFR72.75(c)(3)
(M) When removable radioactive contamination exceeds the limits of 71.87(i) (i.e., "The level of non-fixed (removable) radioactive contamination on the external surfaces of each package offered for shipment is as low as reasonably achievable, and within the limits specified in DOT regulations in 49 CFR173.443") or external radiation levels exceed the limits of 71.47 (i.e., "The radiation level does not exceed 200 mrem/hr at any point on the external surface of the package, and the transport index does not exceed ten. If this level is exceeded, the package must be transported by exclusive use shipment only, and the radiation levels must not exceed the values in 71.47(b)").	ECHO 1-hour report 10CFR20.1906(d)
(N) When CY conducts a trace investigation of any SNM shipment that is lost or unaccounted for after the ETA.	ECHO 1-hour report after loss and 1-hour report after recovery. 10CFR73.71

*Events that occur at the ISFSI are reportable under 10CFR50 and 10CFR72. Events that occur on the site proper (excludes ISFSI) are reportable under 10CFR50 only.

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EVENT: SECURITY	CLASSIFICATION
Significant Safeguards event. Refer to SP-17 for reporting requirements	ECHO 1-hour report 10CFR73.71
Significant Fitness for Duty Events:	ECHO Notify the NRC Operations Center within 24 hours of confirmation of the event per 10CFR26.73(b). Classify as an Echo and notify the State within 1 hour after notifying the NRC.
(A) The sale, use, or possession of illegal drugs within the protected area.	
(B) Any acts by any company supervisory personnel assigned to perform duties within the scope of this Part:	10CFR26.73(a)(1)
(1) Involving the sale, use or possession of a controlled substance.	10CFR26.73(a)(2)
(2) Resulting in confirmed positive tests on such persons.	10CFR26.73(a)(2)(i)
(3) Involving use of alcohol within the protected area, or	
(4) Resulting in a determination of unfitness for scheduled work due to the consumption of alcohol.	10CFR26.73(a)(2)(ii) 10CFR26.73(a)(2)(iii) 10CFR26.73(a)(2)(iv)

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EVENT: ENVIRONMENTAL	CLASSIFICATION
NOTE Technical assistance should be requested to assist in classifying an environmental event. The Environmental Coordinator is on-call and can be reached per the call out list provided to the ISS.	ECHO 4-hour report
Oil, chemical, hazardous waste release to the environment, or an environmental event of significant interest but of no public hazard, which is one or more of the following: (A) Environmental emergency spill per Attachment 3 (B) Presents a potential health risk (C) Any visible oil spill to navigable waters (D) A press release will be made (E) Fish kill, unusual fish entrapments, or unusual environmental situations	10CFR50.72(b)(2)(xi) * (Based on notifying the State) 10CFR72.75(b)(2) See Attachment 5 for SARA reporting requirements. For (A) see Section 3.5 for 2-hour and 5-day written report to DEP and informational call to NRC

*Events that occur at the ISFSI are reportable under 10CFR50 and 10CFR72. Events that occur on the site proper (excludes ISFSI) are reportable under 10CFR50 only.

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EVENT DESCRIPTION	INFORMATIONAL NOTIFICATION
NOTE When informational notification calls are made to the NRC EOC and the State DEP (various branches), a commercial line is used to inform them of an event(s) or condition(s) which is/are below the threshold limits established for reporting via the prompt notification system (ENS phone or the radiopager).	**NOTE** Environmental events are reportable to the DEP only and do not by themselves meet the NRC reporting threshold. However, since a report is made to another government agency (the DEP) a report to NRC is also required. If a press release for this permit violation or for an event directly related to the violation is planned, an Echo notification should be made.
(A) NPDES Exceedance	
(1) In excess of maximum daily limit (See Section 3.5)	
(2) Incidental (See Section 3.5)	Within 2 hours during the working day Commercial call to the DEP
(B) (1) Oil Spills	30 days-monthly report
Classified as insignificant per Attachment 3	
(2) Chemical Spills	No notification necessary
Significance must be determined by the Environmental Coordinator. Significant hazardous chemical spills must be reported commercially to DEP.	Within 8 hours during the working day Commercial call to DEP

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EVENT DESCRIPTION	INFORMATIONAL NOTIFICATION
Any failure of the NRC Emergency Notification System (ENS) for a period of greater than 1 hour. (A busy signal or static on the line does not constitute a loss.)	Within 8 hours Commercial call to NRC EOC
Any fire related incident involving a PCB transformer shall be reported to the National Response Center.	Within 8 hours Commercial call to NRC EOC
NOTE If it is apparent that the following event will be made public, then declare a General Interest Event, posture code Echo (10CFR50.72(b)(2)(vi)).	Within 8 hours. Commercial call to NRC EOC
Any onsite serious injury or Serious personnel contamination or Serious damage to plant equipment or facilities which involve spent fuel	Call to ISFSI Manager within 1 hour of determination. If injured person is not a system employee, notify the CY Financial Control Office as soon as possible. Also see Attachment 2 for OSHA notification of three or more employees hospitalized. 29CFR1904

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SECTION 2.0 Instructions for Making State of Connecticut Notifications

1) Notify the State Police Message Center within one hour of the classification by dialing (860) 685-8190 (24 hour duty).

   a. Identify yourself.
   b. Read the information below to the Officer on Duty.

2) Notify the Connecticut DEP within one hour of classification by dialing 860-424-3333 (24 hour duty desk).

   a. Identify yourself and request the person to obtain the form for Connecticut Yankee events.
   b. Read the information below to the DEP Communication Officer (CO).

State of Connecticut Required Information
(complete prior to calling; read this information when calling)

RECORD and READ the following announcement (speak slowly and distinctly):

- This is the ISFSI Shift Supervisor at Connecticut Yankee in Haddam Neck, CT.
- This is (pick one): _____ a drill _____ an actual incident.

INITIAL NOTIFICATION

- An Incident, classification (___General Interest Event or ___ Radioactive Material Incident), posture code ____ (from the Attachment 1, Section 1.0 list) has been declared, based on (Incident description):

  _____

  _____

THE INCIDENT WAS CLASSIFIED ON (date) _____ at (hrs) _____, and is being reported on (date) _____ at (hrs) _____. (elapsed time = ____hr - If reporting time is not met, issue a Condition Report.)

THE INCIDENT INVOLVES

_____ no release of radioactivity _____ ongoing or potential release of radioactivity
_____ oil spill _____ toxic/hazardous chemical spill

- The plant is permanently shutdown.
- I repeat, this is Connecticut Yankee in Haddam Neck, CT. This is (pick one): _____ a drill, _____ an actual incident.

For follow up questions regarding this matter please call:

_____ at _____
Name Phone Number

Time: _____ Date: _____ ISS Initials: _____

Attachment 1
NRC and State Notifications
(Page 14 of 16)

SECTION 3.0 Instructions for Making NRC Notifications

Complete the information on the next two pages (pages 15 and 16 of this Attachment). Then call the ENS and relay the information verbally. Fax the completed pages 15 and 16 of this Attachment to the NRC Operations Center.

Emergency Notification System (ENS) OR	(301) 816-5100 (primary) OR (800) 532-3469
Health Physics Network (HPN) to NRC	(301) 951-0550 (First Backup) OR (800) 449-3649
Operations Center and Commercial	(301) 415-0550 (Second Backup)
Telephone System to NRC Operations	(301) 415-0553 (Third Backup)
Center	(301) 816-5151 (FAX)
NRC Region One Office	(610) 337-5000
	(610) 337-5324 (FAX) Main
	(610) 337-5368 (FAX) Aux. Main
	(610) 337-5349 (FAX) Div. Reactor Proj.

Attachment 1
NRC and State Notifications
(Page 15 of 16)

PAGE 1 OF 2

NRC FORM 361
(12-2000)

US NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

REACTOR PLANT
EVENT NOTIFICATION WORKSHEET

EN #

NRC OPERATION TELEPHONE NUMBER: PRIMARY -- 301-816-5100 or 800-532-3469*, BACK UPS-- [1st] 301-951-0550 or 800-449-3694*, [2nd] 301-415-0550 and [3rd] 301-415-0553 *Licensees who maintain their own ETS are provided these telephone numbers.

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	NAME OF CALLER	CALL BACK#

EVENT TIME & ZONE	EVENT DATE	POWER MODE BEFORE	POWER MODE AFTER

EVENT CLASSIFICATIONS		1-Hr. Non-Emergency 10 CFR 50.72(b)(1)			(v)(A)	Safe SD Capability	AINA
GENERAL EMERGENCY	GEN/AAEC		TS Deviation	ADEV	(v)(B)	RHR Capability	AINB
SITE AREA EMERGENCY	SITAAEC	4-Hr. Non-Emergency 10 CFR 50.72(b)(2)			(v)(C)	Control of Rad Release	AINC
ALERT	ALE/AAEC	(i)	TS Required SD	ASHU	(v)(D)	Accident Mitigation	AIND
UNUSUAL EVENT	UNU/AAEC	(iv)(A)	ECCS Discharge to RCS	ACCS	(xii)	Offsite Medical	AMED
50.72 NON-EMERGENCY	(see next columns)	(iv)(B)	RPS Actuation (scram)	ARPS	(xiii)	Loss Comm/Asmt/Resp	ACOM
PHYSICAL SECURITY (73.71)	DDDD	(xi)	Offsite Notification	AFRE	60-Day Optional 10 CFR 50.73(a)(1)		
MATERIAL/EXPOSURE	B??	8-Hr. Non-Emergency 10 CFR 50.72(b)(3)				Invalid Specified System Actuation	AINV
FITNESS FOR DUTY	HFIT	(ii)(A)	Degraded Condition	ADEG	Other Unspecified Requirement (Identify)		
OTHER UNSPECIFIED REQMT	(see last column)	(ii)(B)	Unanalyzed Condition	AUNA			NONR
INFORMATION ONLY	NINF	(iv)(A)	Specified System Actuation	AESF			NONR

DESCRIPTION

Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc(Continue on back)

NOTIFICATIONS	YES	NO	WILL BE
NRC RESIDENT			
STATE(s)			
LOCAL			
OTHER GOV AGENCIES			
MEDIA/PRESS RELEASE			

ANYTHING UNUSUAL OR NOT UNDERSTOOD? ☐ YES (Explain above) ☐ NO

DID ALL SYSTEMS FUNCTION AS REQUIRED? ☐ YES ☐ NO (Explain above)

MODE OF OPERATION UNTIL CORRECTED:

ESTIMATED RESTART DATE:

ADDITIONAL INFO ON BACK ☐ YES ☐ NO

NRC FORM 361 (12-2000)

PRINTED ON RECYCLED PAPER

Attachment 1
NRC and State Notifications
(Page 16 of 16)

ADDITIONAL INFORMATION — PAGE 2 OF 2

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T S EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		*State release path in description	

	Release Rate (Ci/sec)	% T S LIMIT	HOO GUIDE	Total Activity (Ci)	% T S LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium and dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS					
ALARM SETPOINTS					
% T S LIMIT (if applicable)					

RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc.)

LEAK RATE	UNITS gpm/gpd	T S LIMITS	SUDDEN OR LONG-TERM DEVELOPMENT
LEAK START DATE	TIME	COOLANT ACTIVITY AND UNITS: PRIMARY	SECONDARY

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL

EVENT DESCRIPTION (Continued from front)

Attachment 2
Response to a Medical Emergency
(Page 1 of 2)

Trained and certified First Responders shall be dispatched to stabilize and assess the situation, and to provide any first aid. The First Responder shall:

- Report to the scene of the medical emergency with a first responder medical kit, and any other response devices and support personnel that may be required based on what is known of the incident.

- Perform a medical evaluation of the patient(s) and provide medical status information and medical support needs (ambulance, LifeStar, additional support personnel, additional equipment, etc.) to the ISS as soon as possible. The ISS shall provide for any such items/services requested.

- If any radiological issues exist, discuss these with the ISS. The ISS shall provide any necessary support to address these issues, such as qualified personnel, HP monitoring equipment and provisions for contamination control. Medical condition shall always take precedence over radiological concerns. Use best judgment on what radiological controls are appropriate based upon the seriousness of the injury.

- As necessary, establish radiological controls at the scene, such that the controls do not impede medical response. If contamination is detected on the patient(s), perform decontamination to the extent practical based upon the injuries.

- Provide medical assistance to the patient(s) until the ambulance arrives. Then provide a briefing to the ambulance responders with medical conditions and a brief description of the accident and radiological status of the patient if applicable.

The ISS shall arrange for the qualified personnel to perform the following actions:

- Security shall provide escorted access to the offsite ambulance team, if required. Ensure dosimetry is issued to ambulance crew, if warranted.

- If patient(s) is known or suspected to be contaminated upon ambulance arrival, assign an H.P. Tech to accompany the patient(s) in the ambulance to the hospital, and assist with contamination control during transport. Notify the hospital that a contaminated, injured person is being transported to their facility. Arrange for a second H.P. Tech and H.P. Supervision to go to the hospital to assist. Notify management and Public Relations of the situation and that they should consider going to the hospital to deal with the media.

- If the patient(s) are being transported as non-contaminated, retrieve dosimetry from all individuals leaving the ISFSI. Otherwise, allow the ambulance crew to keep the dosimetry for transport of the patient to the hospital.

- At the hospital, brief hospital response personnel on the radiological status of the patient, if applicable.

Attachment 2
Response to a Medical Emergency
(Page 2 of 2)

- Ensure ambulance, equipment, and all personnel involved with contaminated, injured person transport are surveyed and released per RP procedures.

- Maintain control of all contaminated and potentially contaminated materials generated from the patient. The ISFSI Manager (or designee) will make arrangements for transport of the mixed hazards materials back to the site.

- Retrieve personnel dosimetry from ambulance personnel and patient and return to the ISFSI.

If the event has resulted in a single or multiple fatality, or the hospitalization of three or more employees, perform the notifications required per Attachment 1, with the following information:

- PROVIDE the following information:
    - Connecticut Yankee
    - Number of fatalities _____
    - Number hospitalized _____
    - Date _____Time of incident_____
    - Contact person _____Phone No._____
    - Location of incident _____
    - Brief description of the event_____

- During normal working hours, non-business hours, or weekends notify the ISFSI Manager of the incident. If unavailable, notify the President.

- If none of these people are available, notify the Bridgeport OSHA office directly at (203)-579-5580 or (203)-579-5581.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 1 of 8)

SECTION 1: Instructions for response (all actions by the ISS unless otherwise noted):

Upon receipt of a report of a petroleum product spill (i.e. fuel oil, gasoline, lubricating oil, hydraulic oil, waste oil, etc.), a report of a leak of a flammable gas (i.e. acetylene, propane, etc.), or a report of a hazardous substance (Mercury, Acids, Caustics, Solvents, Nalcolyte, Sewage or Blood-borne Pathogens) anywhere in the Power Plant area or at the ISFSI, the ISS shall ensure the following actions are performed:

1.0 Record the date, time and name of the individual reporting the spill and where follow up calls can be made:

Date:_____
Time:_____
Name:_____
Follow-up Calls:_____

2.0 Record the suspected material, the extent of the spill or leak, and the exact location:

_____
_____
_____
_____

3.0 Record names/condition of any injured or contaminated persons involved:

_____
_____

4.0 Call Environmental Coordinator using ISFSI DI-01, ERO Information and Resources.

5.0 Decide whether it is necessary to send additional personnel to assess and/or mitigate the consequences of the incident. If so, dispatch the designated responder(s) with an appropriate briefing (include a review of the hazards associated with the material listed in this Attachment, if the material is known), and the appropriate equipment.

6.0 Direct the caller to wait for the designated responder(s) to arrive, while standing at a safe distance, and protect other personnel from entering the spill area.

7.0 Direct the designated responder(s) or the person reporting the incident to take *defensive actions* listed in this Attachment for the given material to control the spread of the spill.

8.0 Determine if an area or building must be evacuated. If an area or building must be evacuated, initiate that activity per ISFSI Procedure EO-5.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 2 of 8)

9.0 At any time sufficient detail is available, classify the Incident as an Emergency Spill or an Incidental Spill (see Section 2 of this Attachment):

9.1 If classified as an Incidental Spill exit the procedure and ensure that a supervisor has been assigned to direct the cleanup.

9.2 If classified an Emergency Spill proceed to make the State and NRC classifications and notifications per Attachment 1.

10.0 Complete the Attachment 4 Spill Report form and if required the Attachment 5, Right-to-Know Report Form.

11.0 In addition to the State and NRC notifications in Attachment 1, perform the additional notifications listed below:

- IF the spill involved Gasoline, Fuel Oil, Lubricating Oil, Hydraulic Oil or Waste Oil, AND contact with the soil exists, notify the President and the ISFSI Manager.
- If the spill is a sewage or blood-borne pathogen spill, dispatch a Medical first responder for cleanup.
- For a leak of a flammable gas CALL 911 and request that the Local Fire Department respond.
- For a spill of a petroleum product beyond the capability of available cleanup personnel, or hazardous chemical, contact the clean up vendor, Fleet Environmental Services (1-800-562-7611), and have them report to the station for hazardous material clean up.
- If a spill has entered any body of water CONTACT the Coast Guard, Captain of the Port, New Haven - (203) 468-4400.
- If a Reportable Quantity has been spilled:

  a) Notify the National Response Center - 1-800-424-8802
  b) Notify the President and the ISFSI Manager (or designee)
  c) Notify the State Emergency Response Commission - (860) 424-3373
  d) Notify the Local Emergency Planning Commission - (860) 267-4468

12.0 Prepare for any security or HP controls necessary for off-site emergency responders.

13.0 Consult with the ISFSI Manager (or designee) to determine follow up written reports that must be prepared, and assign responsibilities for completing these reports.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 3 of 8)

14.0 Fax Attachment 4 to the Department of Environmental Protection (424-4062)

15.0 When the incident scene is stabilized, issue a Condition Report and terminate the use of this procedure.

SECTION 2: Classification of Emergency Spill vs. Incidental Spill:

If any of the following criteria is "YES" the spill must be considered an Emergency Spill. Otherwise it is an Incidental Spill.

1. The spill/leak involves a release of any Petroleum Product, or Hazardous Material reaching the a body of water creating a visible sheen.	Yes	No
2. The spill/leak involves a release of any Petroleum Product, Hazardous Material, or Flammable Gas that poses a threat to human health or the environment.	Yes	No
3. The spill/leak involves a release of Gasoline, Fuel Oil, Lubricating Oil, Hydraulic Oil, or Waste Oil to either a) the soil, **OR** b) concrete or pavement in excess of 10 gallons.	Yes	No
4. The spill/leak involves a release of Acetylene or Propane in excess of 10 lbs.	Yes	No
5. The spill/leak involves a release of Mercury in excess of 1 lb.	Yes	No
6. The spill/leak involves a release of an acid in excess of the Reportable Quantity (RQ) listed below for this type of material.	Yes	No
7. The spill/leak involves a release of a caustic in excess of the Reportable Quantity (RQ) listed below for this type of material.	Yes	No
8. The spill/leak involves a release of a solvent in excess of the Reportable Quantity (RQ) listed below for this type of material.	Yes	No

NOTE: Spills or Leaks of Hazardous Materials not explicitly provided in the above Table shall be compared to the Final Reportable Quantity (RQ) thresholds established in Table 302.4 of 40CFR302 for Hazardous Substances, or Appendix A of 40CFR355 for Extremely Hazardous Substances.

Classify and report the event per Attachment 1 accordingly. Complete the Hazardous Substance Spill Report (Attachment 4) to be used for reporting the information to outside agencies. If spill is in excess of RQ, also complete Attachment 5 for SARA reporting.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 4 of 8)

SECTION 3: Detailed Response Instructions for Specific Materials:

1.0 Gasoline, Fuel Oil, and Other Petroleum Products

Properties: Clear, yellowish, or brown-red liquid, floats on water, distinctive petroleum smell

Hazards:
- Highly Flammable, will be easily ignited by heat, sparks or flames.
- Vapors may form explosive mixtures with air.
- Most vapors are heavier than air, they will spread along the ground and collect in low areas.
- Vapors may travel to source of ignition and flash back.
- Runoff to sewers may create a fire or explosion hazard.

- Containers may explode when heated.
- Inhalation or contact can cause skin and eye irritation.
- Vapors may cause dizziness of suffocation.

Defensive Actions:
1. Avoid all contact with the hazardous material except for life safety considerations.
2. Establish a Command Post upwind of the spill.
3. Evacuate all personnel out of the area.
4. Set-up barriers and warning signs to keep non-essential personnel out of the spill zone.
5. Evaluate the level of personnel protective equipment the situation warrants.
6. Eliminate all ignition sources in the vicinity.
7. Stop the spill only if it can be done without coming in contact with the hazardous material.
8. While remaining far ahead of the spill, construct a dike around the spill using SPEEDI-DRI, or other absorbent material.
9. While remaining far ahead of the spill, construct temporary dikes, or place covers or diversion material around exposed storm drains and floor drains.
10. AFFF foam extinguishers or Protein Foam may be used to suppress vapors.
11. If the spill is to water way, deploy available oil booms.
12. If the spill is to the discharge canal, stop any liquid discharges and dilution flow.

RQ: 10 gallons

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 5 of 8)

2.0 Flammable Gasses

Properties: Acetylene: colorless gas with distinctive garlic-like odor. Vapor density of .9
Propane: colorless liquified gas with sulfurous odor. Vapor density of 1.56, specific gravity of .51.

Hazards:
- Extremely Flammable, will be easily ignited by heat, sparks or flames.
- Will form explosive mixtures with air.
- Vapors of liquified gas are initially heavier than air and will spread along the ground.
- Vapors may travel to source of ignition and flash back.
- Containers may explode when heated.
- Ruptured cylinders may rocket.
- Vapors may cause dizziness of asphyxiation without warning.
- May be irritating or toxic if inhaled at large concentrations.
- Contact with gas or liquified gas may cause burns, severe injury and/or frostbite.

Defensive Actions:
1. Avoid all contact with the hazardous material except for life safety considerations.
2. Establish a Command Post 300 feet or more upwind of the spill/leak.
3. Evacuate all personnel out of the area for 300 feet or more in all directions.
4. Set-up barriers and warning signs to keep non-essential personnel out of the spill/leak zone.
5. Eliminate all ignition sources in the vicinity.
6. Route fire hoses to the area and charge.
7. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
8. Do not direct water at spill or source of leak.
9. Maintain area isolated and controlled until gas is dispersed.

RQ: 10 pounds

3.0 Mercury

Properties: Heavy, mobile, silvery liquid metal. Vapor is odorless and colorless.

Hazards:
- Inhalation of vapors or contact with substance will result in contamination and potential harmful effects.
- Non-combustible, material itself does not burn, but may react upon heating to produce corrosive and/or toxic fumes.
- Reacts violently with Acetylene.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 6 of 8)

Defensive Actions:
1. Avoid all contact with the hazardous material except for life safety considerations.
2. Establish a Command Post 100 feet or more upwind of the spill/leak.
3. Evacuate all personnel out of the area for 100 feet or more in all directions.
4. Set-up barriers and warning signs to keep non-essential personnel out of the spill zone.
5. Evaluate the level of personnel protective equipment the situation warrants.
6. Stop the spill only if it can be done without coming in contact with the hazardous material.
7. Cover earth, sand, or other non-combustible material followed with plastic tarp to minimize spreading or contact with rain.

RQ: 1 Pound (1.15 fluid ounces or ≈ 2 Tablespoons)

4.0 Generic Acids/Caustics

Properties: clear, colorless liquids, with no or slight odor.

Hazards:
- Toxic, inhalation, ingestion, or skin contact with material may cause severe injury or death.
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive, and/or toxic gases.
- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Contact with metals may produce flammable gas.
- Containers may explode when heated.
- Some substances are oxidizers and may ignite ordinary combustibles.

Defensive Actions:
1. Avoid all contact with the hazardous material except for life safety considerations.
2. Establish a Command Post 200 feet or more upwind of the spill/leak.
3. Evacuate all personnel out of the area for 200 feet or more in all directions.
4. Set-up barriers and warning signs to keep non-essential personnel out of the spill zone.
5. Evaluate the level of personnel protective equipment the situation warrants.
6. Eliminate all ignition sources from the area.
7. Stop the spill only if it can be done without coming in contact with the hazardous material.
8. Consider ventilation of enclosed areas.

RQ: See Table 302.4 of 40CFR302 for Hazardous Substances, or Appendix A of 40CFR355 for Extremely Hazardous Substances.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 7 of 8)

5.0 Solvents

Properties: Liquids, various colors, various odors

Hazards:
- Highly Flammable, will be easily ignited by heat, sparks or flames.
- Vapors may form explosive mixtures with air.
- Most vapors are heavier than air, they will spread along the ground and collect in low areas.
- Vapors may travel to source of ignition and flash back.
- Runoff to sewers may create a fire or explosion hazard.
- Containers may explode when heated.
- Inhalation or contact can cause skin and eye irritation.
- Vapors may cause dizziness of suffocation.

Defensive Actions:
1. Avoid all contact with the hazardous material except for life safety considerations.
2. Establish a Command Post upwind of the spill.
3. Evacuate all personnel out of the area.
4. Set-up barriers and warning signs to keep non-essential personnel out of the spill zone.
5. Evaluate the level of personnel protective equipment the situation warrants.
6. Eliminate all ignition sources in the vicinity.
7. Stop the spill only if it can be done without coming in contact with the hazardous material.
8. While remaining far ahead of the spill, construct a dike around the spill using SPEEDI-DRI, or other absorbent material.

RQ: See Table 302.4 of 40CFR302 for Hazardous Substances, or Appendix A of 40CFR355 for Extremely Hazardous Substances.

7.0 Sewage

Properties: Dark colored liquid (liquified feces), foul odor

Hazards:
- Potential Bio-Hazard.

Attachment 3
Response to Oil Spill, Chemical or Hazardous Substance Spill
(Page 8 of 8)

Defensive Actions:
1. Avoid all contact with the hazardous material except for life safety considerations.
2. Establish a Command Post upwind of the spill.
3. Evacuate all personnel out of the area.
4. Set-up barriers and warning signs to keep non-essential personnel out of the spill zone.
5. Evaluate the level of personnel protective equipment the situation warrants.
6. Eliminate all ignition sources in the vicinity.
7. Stop the spill only if it can be done without coming in contact with the hazardous material.
8. While remaining far ahead of the spill, construct a dike around the spill using SPEEDI-DRI, or other absorbent material.

RQ: None

8.0 Blood-borne Pathogens

Properties: Bright red to dark red colored liquid or stains.

Hazards: Various microorganism found in human blood or body fluids that may cause disease (i.e. Hepatitis B and HIV).

Defensive Actions:
1. Avoid all contact with material except for life safety considerations.
2. Set up barriers and warning signs to keep non-essential personnel out of the spill zone.
3. Evaluate the level of personnel protective equipment the situation warrants.
4. Contact the ISS to establish cleanup criteria.

RQ: None (i.e., not reportable).

Attachment 4
Connecticut Department of Environmental Protection Spill Report Form
(Page 1 of 3)

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106
Bureau of Waste Management
Oil and Chemical Spill Response Division

REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE OR RELEASE

1. When did the incident occur? Date: __/__/__ Time:
   month/day/year

2. Where did the incident occur?

3. How did the incident occur?

4. Under whose control was the chemical or petroleum product at the time of the incident?

   Name: _____

   Mailing address and street: _____

   Town: _____ State: ____ Zip: _____ Phone: _____

5. Who is the owner of the property onto which the spill occurred?

   Connecticut Yankee Atomic Power Company
   362 Injun Hollow Rd.
   East Hampton, CT 06424-3099
   (860) 267-6426

6. When was the incident verbally reported to the Department of Environmental Protection?

   Date: __/__/__ Time:
   month/day/year

7. Who reported the incident and who were they representing?

   _____
   Print name

   _____
   Title

   Connecticut Yankee Atomic Power Company
   362 Injun Hollow Rd.
   East Hampton, CT 06424-3099
   (860) 267-6426

Attachment 4
Connecticut Department of Environmental Protection Spill Report Form
(Page 2 of 3)

8. What were the chemicals or petroleum products released, spilled or discharged? Give an exact description of each of the materials involved in the incident, including chemical names, percent concentrations, trade names, etc.

If the chemicals are Extremely Hazardous substances or CERCLA hazardous substances, they must be identified as such and include the reportable quantity (RQ). Please attach a Material Safety Data Sheet (MSDS) for each chemical involved.

What were the quantities of chemicals that were released, spilled, or discharged to each environmental medium (air, surface water, soil, groundwater)? (NOTE: CT General Statutes requires the reporting of any amount of any substance or material released to the environment.)

9. Did any of the chemical travel beyond the property line? (NOTE: materials that enter the groundwater are considered to have gone beyond the property line.)

10. What actions were taken to respond to and contain the release, spill or discharge?

11. What actions are being taken to prevent recurrences of an incident of this type?

12. Where there any injuries as a result of this incident? If so, list the names of the exposed individuals, their addresses, phone numbers and describe their injuries.

Name: _____

Mailing address and street: _____

Town: _____ State: ____ Zip: _____ Phone: _____

Injuries: _____

Attach additional sheets if necessary.

Attachment 4
Connecticut Department of Environmental Protection Spill Report Form
(Page 3 of 3)

13. What is the appropriate advice regarding medical attention necessary for exposed individuals?

14. Are there any known or anticipated health risks, acute or chronic, associated with the release of these chemicals or medical advice that should be communicated?

15. Was the incident completely cleaned up by the time this report was submitted? If not, what are the anticipated remedial actions and their duration?

16. CERTIFICATION. I hereby affirm that the foregoing statement is true to the best of my knowledge.

Signature Title Date

Print name

Connecticut Yankee Atomic Power Company
362 Injun Hollow Rd.
East Hampton, CT 06424-3099
(860) 267-6426

This form may be reproduced or computerized as long as it contains all of the information requested and is on an 8 1/2" x11" white paper, black type format. For serious incidents, the questions may be answered in a narrative format which must include the preparer's affidavit.

MAIL TO: State of Connecticut
Department of Environmental Protection
Bureau of Waste Management
79 Elm Street
Hartford, CT 06106

Oil and Chemical
Response Division

Telephone: 860-424-3338 (Emergency)
FAX 860-424-4062

860-424-3024 (Routine calls)

Attachment 5
Release Exceeding Reportable Quantity Community Right-To-Know (SARA) Report Form
(Page 1 of 1)

Upon completion of this form, NOTIFY the Connecticut DEP within one hour by dialing (860) 424-3333 (24-hour duty desk). If the event involves an oil or chemical spill, ALSO call the Oil and Chemical Spill Unit at (860) 424-3338. Identify yourself and inform them that this notification is required by the Community Right-to-Know Law (40CFR355.40). A hazardous substance release meeting the Federal Reportable Quantity has occurred at the Haddam Neck Plant.		
1	Caller's Name:	Title:
2	Organization:	Phone:
3	Incident Date:	Incident Time:
4	Location of Incident: Facility Name:_____ Address:_____	
5	Nature of Incident: ☐ Traffic Accident ☐ Explosion ☐ Spill ☐ Release of Radioactive Material ☐ Derailment ☐ Fire	
6	A Release of Hazardous Materials: ☐ Has occurred ☐ Is ongoing ☐ Could occur ☐ Is unlikely Duration of release or estimate of termination:_____	
7	The material is entering the: ☐ Atmosphere ☐ Solid/on the road ☐ Nearby Water ☐ Storm drains	
8	Name of material(s) (Placard and identification number if transportation incident) _____ _____ _____	
9	Approximate concentration of regulated hazardous substance in product: _____%	
10	Estimated quantity of actual hazardous substance spilled:_____ pounds	
11	Product is an Extremely Hazardous Substance (EHS): ☐ YES ☐ NO	
12	If product is an EHS or otherwise volatile, provide downwind sector: _____ sector	
13	Material Safety Data Sheet (MSDS) available: ☐ YES ☐ NO	
14	Assistance has been requested from: ☐ Other _____ ☐ Conn. State Police Dept. ☐ Haddam Neck ☐ Assistance not required at this time	

Attachment 6
Reportable Liquid or Gaseous Releases
(Page 1 of 1)

Reportable Quantities - RQ (Ci) Discharged Within 24 Hour Period per 40CFR302

GAS	Ci	IODINE	Ci	PARTICULATE	Ci
Ar 41	10	I 129	0.001	Ag 110m	10
Kr 85	1000	I 131	0.01	Am 241	0.01
Kr 85m	100	I 132	10	Ba 140	10
Kr 87	10	I 133	0.01	Ce 141	10
Kr 88	10	I 134	100	Ce 144	1
Xe 131m	1000	I 135	10	Cm 242	1
Xe 133	1000			Cm 243	0.01
Xe 133m	1000			Cm 244	0.01
Xe 135	100			Cs 134	1
Xe 135m	10			Cs 136	10
				Cs 137	1
LIQUID	Ci			Co 57	100
H 3	100			Co 58	10
C 14	10			Co 60	10
				Cr 51	1000
				Fe 55	100
				Fe 59	10
				La 140	10
				La 141	1000
				Mo 99	100
				Mn 54	10
				Na 24	10
				Nb 95	10
				Ni 59	100
				Ni 63	100
				Np 237	0.01
				Pu 238	0.01
				Pu 239	0.01
				Pu 240	0.01
				Pu 241	1
				Pu 242	0.01
				Rb 88	1000
				Ru 103	10
				Ru 106	1
				Sr 89	10
				Sr 90	0.1
				Sb 124	10
				Sb 125	10
				Tc 99m	10
				Zn 65	10
				Zr 95	10