

Docket No. 50-213

Attachment 1

SEP Topic II-3.B,
Flooding Potential and Protection Requirements

SEP Topic II-3.B.1,
Capability of Operating Plant to
Cope with Design Basis Flooding Conditions

Abnormal Operating Procedure 3.2-24
Flooding of the Connecticut River

September, 1982

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AOP 3.2-24-C
Original

Connecticut Yankee
Abnormal Operating Procedure AOP 3.2-24

PLANT OPERATIONS REVIEW COMMITTEE APPROVAL

[Handwritten signatures: J. Brown, W. J. Roy, J. Ford, Michael B. Quinn, Shaw, John H. Ferguson, McLaughlin]

FLOODING OF THE CONNECTICUT RIVER

APPROVED BY STATION SUPERINTENDENT
[Signature]
EFFECTIVE DATE 9-1-82

1.0 DISCUSSION

1.1 This procedure provides the operator with instructions for actions to be taken upon receiving flood warning from Convex, The United States Ecological Survey River Forecasting Center, or upon observation of river level approaching site grade level. Site grade level is 21.0 feet (mean sea level). There will be considerable warning of approaching storm conditions and resulting river flooding. Convex is informed by direct teletype and will alert the plant should abnormal conditions occur or be expected. The following course of action will be followed upon receipt of such an alert or if local observation of river level indicates a level of 12.0 feet (MSL).

2.0 SYMPTOMS

- 2.1 Flood warning received from Convex.
- 2.2 Flood warning from USGS River Forecasting Center.
- 2.3 River Level is \geq 12.0 Ft (MSL).

3.0 AUTOMATIC ACTIONS

- 3.1 None.

4.0 PROCEDURE

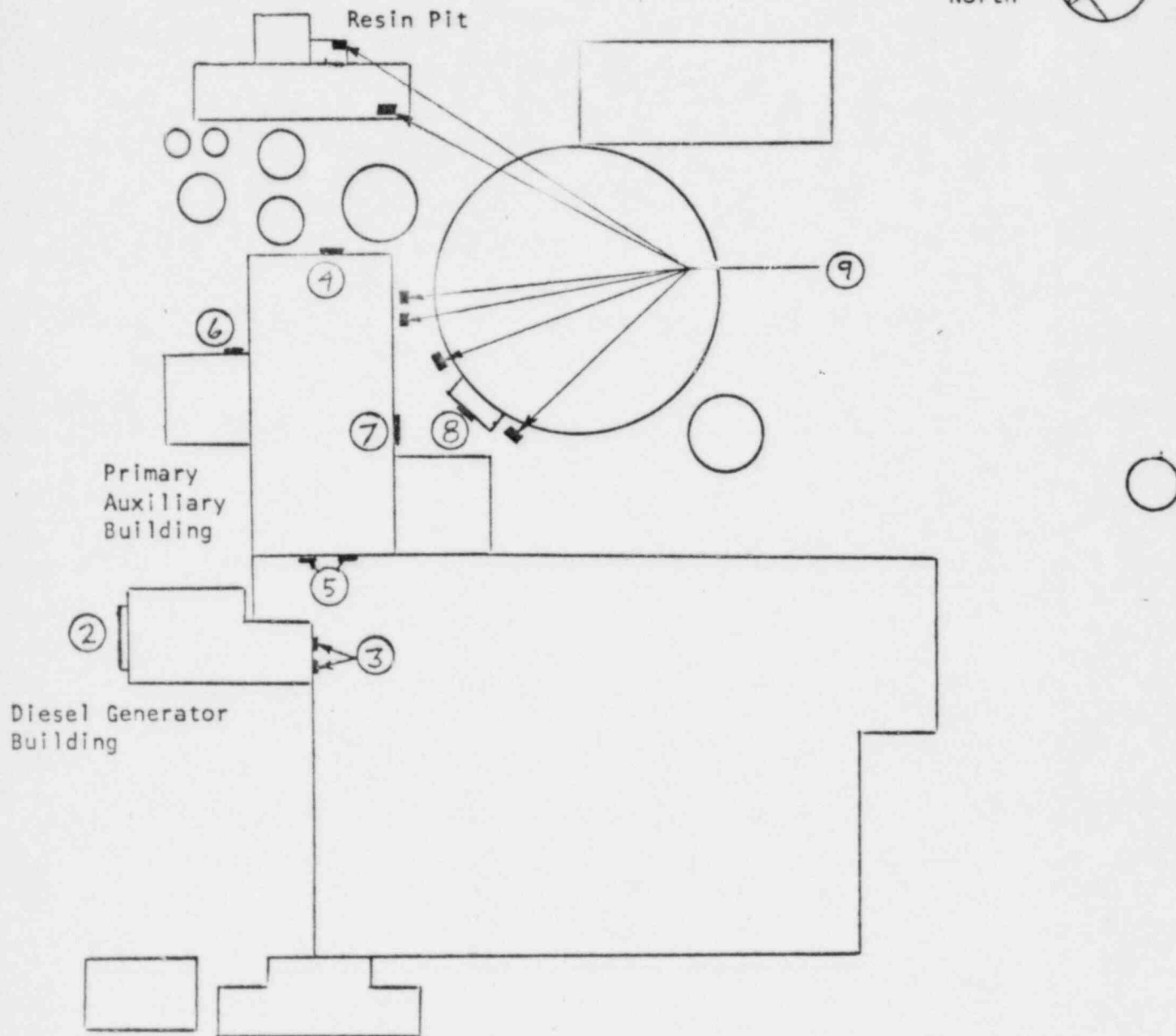
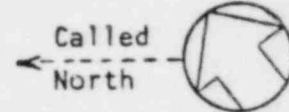
- 4.1 Notify duty officer of flood warning.
- 4.2 Initiate frequent surveillance of river level indicator.
- 4.3 When forecasts indicate a level of 21.0 feet (MSL) will be reached or when the river reaches elevation 12.0 feet (MSL), initiate action to fill the main diesel oil storage tank to a minimum level of 12 feet and to fill the "A" and "B" storage tanks and day tanks.

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- 4.4 When forecasts indicate a level of 21.0 feet (MSL) will be reached or when the river reaches elevation 16.0 feet (MSL), dispatch personnel to install the following flood protection barriers as detailed in Figure 1, Attachment "A" to this procedure.
- 4.4.1 Position each of the two fiberglass service water pump enclosures over the "B" and "C" pumps. Bolt to the floor using each of the holes in the flange provided.
- 4.4.2 Secure the north diesel generator building flood door by (1) tightening each of the four locking bars and (2) installing each of the four channel braces.
- 4.4.3 Install the diesel generator building flood barriers at the "A" and "B" south doors by (1) installing the sill angles at both locations and (2) bolting at both locations each of the four assemblies to the existing frame.
- 4.4.4 Secure the east PAB flood door by (1) installing the sill angle and (2) tightening each of the three locking bars.
- 4.4.5 Secure the PAB floor door in the service building corridor by (1) installing the sill angle and (2) tightening each of the three locking bars.
- 4.4.6 Install the PAB flood barriers in the service building corridor by (1) installing the sill angle and (2) bolting each of the four assemblies to the existing frame.
- 4.4.7 Secure the waste disposal building flood door by (1) installing the sill plate and (2) tightening each of the three locking bars.
- 4.4.8 Secure the south PAB flood door by (1) installing the sill plate, (2) tightening each of the four locking bars, and (3) installing each of the four channel braces.
- 4.4.9 Secure the cable vault flood door by (1) installing the sill plate, (2) tightening each of the three locking bars, and (3) bolting the upper plate assembly to the existing frame.
- 4.4.10 Secure each of the six hatch covers by tightening to the existing frames.
- 4.4.11 Assemble portable pumping equipment and verify operability. Dispatch as required.

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- 4.4.12 Caulk around the concrete plugs and actuator extensions of the pipe trench to assure wat r tightness.
- 4.5 When a river level of 19.5 feet (MSL) is reached, commence the orderly shutdown of the plant to hot standby.
- 4.6 When the river level reaches site grade, perform the following:
 - 4.6.1 Close the valve to the main diesel oil storage tank. Do not open the valve until the river recedes to a level below site grade.
 - 4.6.2 Station personnel in the PAB and diesel generator building to maintain surveillance.
 - 4.6.3 Commence cooldown of the plant to the cold shutdown condition.
- 4.7 Maintain surveillance taking corrective actions as required until river recedes to a level below site grade.



LEGEND	
Number	Item(s)
1	Service Water Pump Motor Enclosures
2	North Diesel Generator Building Doors
3	South Diesel Generat. Building Barriers
4	East PAB Door
5	West PAB Door and Barrier
6	Waste Disposal Door
7	South PAB Door

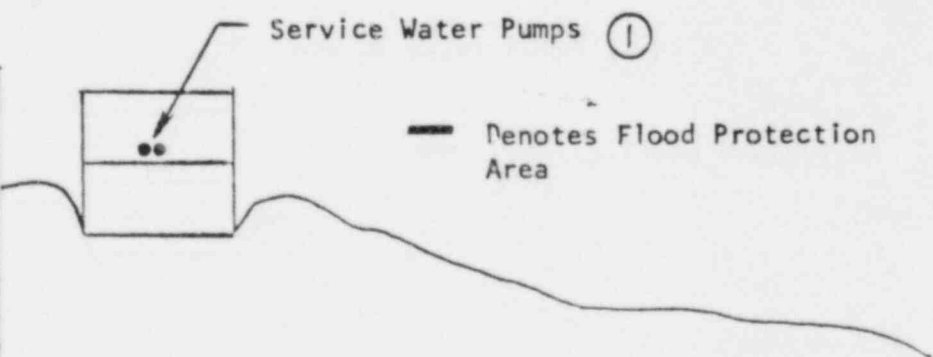


Figure 1
Location Plan
Flood Protection
Areas