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351 - 351 - NEWS MANAGER: EMERGENCY PLAN-POSITION
SPECIFIC PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 05/06/2002

ADD MANUAL TABLE OF CONTENTS DATE: 01/08/2003

CATEGORY: PROCEDURES TYPE: EP
ID: EP-PS-351
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A045

PREVIOUS EMERGENCY DECLARATIONS AT SUSQUEHANNA

| DATE | CLASSIFICATION | DESCRIPTION |
|----------|----------------|---|
| 09/22/82 | ALERT | A small electrical fire in the ESW pump house on the plant site. The fire was out within 10 minutes. The emergency was downgraded to UNUSUAL EVENT an hour later and ended 30 minutes after that. This event occurred before the plant went commercial. |
| 06/22/83 | UNUSUAL EVENT | Bomb threat phoned to plant security. A thorough search turned up no explosives. The event lasted nine hours. |
| 07/26/84 | UNUSUAL EVENT | Failure of diesel generators to start during a planned test on Unit 2. The unit was in start-up testing and had not begun commercial operation. A problem in the electrical system was corrected, and power restored. The event lasted 40 minutes. |
| 03/21/86 | UNUSUAL EVENT | Injured and contaminated worker. |
| 05/24/86 | ALERT | Erosion discovered in pumps for one of the ESW loops. A second ESW loop was operable. PPL shut down the plant to inspect all ESW pumps. The alert lasted 10 hours while the units were being shut down. |
| 09/23/87 | UNUSUAL EVENT | A main steam line plug dislodged during a Unit 1 refueling outage. The plug was suspended over the reactor core by three air hoses. Plant crews placed a net under the plug and removed it from the reactor vessel. The event lasted 11 hours. |
| 01/13/88 | UNUSUAL EVENT | Injured and contaminated worker. |
| 04/10/89 | UNUSUAL EVENT | Injured and contaminated worker. |
| 02/03/90 | ALERT | Loss of a shutdown cooling system on Unit 1 resulted in an increase in reactor water temperature. An alternate system was used to stabilize the water temperature until PPL could restore a circuit breaker that disabled the cooling system. The alert lasted six hours. |
| 01/18/92 | UNUSUAL EVENT | A small hydrogen explosion in the basement of the plant's turbine building injured two workers, one of whom was contaminated with radioactive dust. The event lasted about an hour and a half. |
| 08/23/01 | UNUSUAL EVENT | Plant Security apprehended a man inside the vehicle access area at the plant's North Gatehouse. He did not gain entry to the plant's protected area. |
| 8/23/01 | UNUSUAL EVENT | An unarmed individual scaled the outer perimeter fence and was apprehended by plant security. The individual did not enter the Protected Area. The event lasted about 3.5 hours. |
| 10/03/02 | UNUSUAL EVENT | A fire in the Unit two start-up transformer. The fire was extinguished by an automatic fire suppression system. The event lasted about 2.5 hours. |

EAL# 2.2: Control Room Evacuation
Alert

Brief Non-Technical Description:

The Control Room was evacuated, then control of plant systems was established from another location within the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 2.3: Control Room Evacuation
Site Emergency

Brief Non-Technical Description:

Within 15 minutes of evacuating the Control Room, operators have been unable to establish remote stations for controlling plant systems.

EAL# 3.1: **Fuel Cladding Degradation**
Unusual Event

Brief Non-Technical Description:

Minor damage has occurred to the metal tubes that hold uranium fuel pellets. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 3.2: **Fuel Cladding Degradation**
Alert

Brief Non-Technical Description:

There has been significant damage to metal tubes that hold uranium fuel pellets. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 3.3: **Fuel Cladding Degradation**
Site Emergency

Brief Non-Technical Description:

Severe damage has taken place to the metal tubes that hold uranium fuel pellets. Abnormally high radiation levels are present in the water which acts as a reactor coolant or in the containment structure surrounding the reactor.

EAL# 3.4.a: **Fuel Cladding Degradation**
General Emergency

Brief Non-Technical Description:

Severe damage to metal tubes that hold uranium fuel pellets. Higher than normal radiation levels in reactor coolant or containment structure surrounding reactor, with a potential for off-site radioactivity release.

EAL# 3.4.b: Fuel Cladding Degradation
General Emergency

Brief Non-Technical Description:

Indication of uranium fuel melting. Potential for off-site radioactivity release.

EAL# 4.1:- General
 Unusual Event

Brief Non-Technical Description:

(Specific Event) which potentially threatens the safety of the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 4.2: General
 Alert

Brief Non-Technical Description:

(Specific Event) which actually threatens the safety of the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 4.3: General
 Site Emergency

Brief Non-Technical Description:

(Specific Event) has occurred which indicates an (actual/imminent) loss of important plant safety systems.

EAL# 4.4: General
 General Emergency

Brief Non-Technical Description:

(Specific Event) has occurred which indicates an (actual/imminent) major release of radioactivity.

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| EAL# 5.1:- Injured/Contaminated Personnel <i>Unusual Event</i> |
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Brief Non-Technical Description:

An injured person(s), contaminated with radioactive material, is or has been moved outside the immediate area of the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 6.1: In-plant High Radiation
Unusual Event

Brief Non-Technical Description:

High levels of airborne radioactivity have been detected inside the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 6.2: In-plant High Radiation
Alert

Brief Non-Technical Description:

Very high levels of radiation have been detected in the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 7.1: Loss of AC Power
Unusual Event

Brief Non-Technical Description:

AC electrical power from either off-site or on-site sources is needed to operate plant safety equipment. Either the off-site or on-site source has been lost; however, power is still available from the other source. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 7.2: Loss of AC Power
Alert

Brief Non-Technical Description:

All AC electrical power (from both on-site and off-site) needed to operate plant safety equipment has been temporarily lost. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 7.3: Loss of AC Power
Site Emergency

Brief Non-Technical Description:

All AC electrical power (from both on-site and off-site) needed to operate plant safety equipment has been lost for a sustained period of time (15 minutes). Based on current plant conditions, the safety of the general public is not threatened.

EAL# 8.2: **Loss of Control Room Alarms and Annunciators**
Alert

Brief Non-Technical Description:

All control room alarms have been lost. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 8.3: **Loss of Control Room Alarms and Annunciators**
Site Emergency

Brief Non-Technical Description:

All control room alarms have been lost in combination with another plant operating problem (plant transient).

EAL# 9.2: Loss of DC Power
Alert

Brief Non-Technical Description:

All DC electrical power in the plant has been lost temporarily. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 9.3: Loss of DC Power
Site Emergency

Brief Non-Technical Description:

All DC electrical power—needed to operate some plant safety equipment—has been lost for more than 15 minutes.

EAL# 10.2: Loss of Decay Heat Removal Capability
Alert

Brief Non-Technical Description:

While the reactor is shutdown (cold shutdown), equipment needed to maintain reactor water temperature below 200° F has been lost. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 10.3: Loss of Decay Heat Removal Capability
Site Emergency

Brief Non-Technical Description:

While the unit is shutdown, operators are unable to effectively cool the reactor.

EAL# 10.4: Loss of Decay Heat Removal Capability
General Emergency

Brief Non-Technical Description:

Operators are unable to cool the reactor; a release of radioactivity is possible.

EAL# 11.1: Loss of Reactivity Control
Unusual Event

Brief Non-Technical Description:

Reactor power has increased in a way that was not anticipated. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 11.2: Loss of Reactivity Control
Alert

Brief Non-Technical Description:

During attempted reactor shutdown, the reactor's control rods failed to insert fully (scram). Based on current plant conditions, the safety of the general public is not threatened.

EAL# 11.3: Loss of Reactivity Control
Site Emergency

Brief Non-Technical Description:

Operators are unable to shut down and cool the reactor. Reactor control rods failed to fully insert. A back-up chemical control system also failed.

EAL# 11.4: Loss of Reactivity Control
General Emergency

Brief Non-Technical Description:

Operators are unable to shut down and cool down the reactor. Reactor control rods failed to fully insert. The back-up chemical control system also failed. The situation could lead to a radioactivity release.

EAL# 12.1: Loss of Reactor Vessel Inventory
Unusual Event

Brief Non-Technical Description:

To maintain reactor water level, an emergency cooling system has been activated. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 12.2: Loss of Reactor Vessel Inventory
Alert

Brief Non-Technical Description:

Excessive water is leaking from the reactor coolant systems into the containment structure surrounding the reactor vessel. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 12.3: Loss of Reactor Vessel Inventory
Site Emergency

Brief Non-Technical Description:

The ability to maintain water level above the fuel has been lost.

EAL# 12.4.a: Loss of Reactor Vessel Inventory
General Emergency

Brief Non-Technical Description:

The ability to maintain an adequate water level in the reactor vessel has been lost; severe fuel damage and release of radioactivity are possible.

EAL# 12.4.b: Loss of Reactor Vessel Inventory
General Emergency

Brief Non-Technical Description:

Fuel damage and a reactor coolant leak have occurred, with a potential loss of the ability to contain radioactive releases.

EAL# 13.1: Natural Phenomena
Unusual Event

Brief Non-Technical Description:

(Tornado/ Hurricane/ Earthquake) has struck the plant site. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 13.2: Natural Phenomena
Alert

Brief Non-Technical Description:

(Tornado/ Hurricane/ Earthquake) has struck the plant and could affect plant safety. Based on current plant conditions, the safety of the general public is not threatened. The event may be severe enough to impact plant equipment.

EAL# 13.3: Natural Phenomena
Site Emergency

Brief Non-Technical Description:

Severe (Tornado/ Hurricane/ Earthquake) is affecting plant safety while plant is not in cold shutdown.

EAL# 14.1: On-site Fire/Explosion
Unusual Event

Brief Non-Technical Description:

A (fire/ explosion) has occurred on-site, within the (plant/ security fence). Based on current plant conditions, the safety of the general public is not threatened.

EAL# 14.2: On-Site Fire/Explosion
Alert

Brief Non-Technical Description:

A (fire/ explosion) has occurred on-site that has affected plant operation. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 14.3: On-site Fire/Explosion
Site Emergency

Brief Non-Technical Description:

A (fire/ explosion) has damaged equipment needed to safely shut down the reactor.

EAL# 15.1: Radiological Effluent
Unusual Event

Brief Non-Technical Description:

Radioactivity is being released from the plant that exceeds plant operating license limits (Technical Specifications) for liquid releases or exceeds 2 times plant operating license limits for gaseous releases. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 15.2: Radiological Effluent
Alert

Brief Non-Technical Description:

Radioactivity is being released at levels at least ten times higher than those allowed by the plant operating license limits (Technical Specifications) for liquid release or exceeds 200 times plant operating license limits for gaseous limits. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 15.3: Radiological Effluent
Site Emergency

Brief Non-Technical Description:

Radioactivity is being or has been released which may result in low levels of exposure to people outside the immediate plant area (emergency planning boundary).

EAL# 15.4: Radiological Effluent
General Emergency

Brief Non-Technical Description:

Radioactivity is being released that exceeds federal guidelines which specify actions like sheltering or evacuation to protect the public.

EAL# 16.1: Security Event
Unusual Event

Brief Non-Technical Description:

An attempt has been made to breach station security or a site-specific credible threat has been received. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 16.2: Security Event
Alert

Brief Non-Technical Description:

A compromise of Station security has occurred or is imminent. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 16.3: Security Event
Site Emergency

Brief Non-Technical Description:

Security has been compromised in a way that threatens plant safety systems.

EAL# 16.4: Security Event
General Emergency

Brief Non-Technical Description:

Security has been compromised in a way that has caused loss of control of some or all vital areas of the plant.

EAL# 17.1: Spent Fuel Related Incident
Unusual Event

Brief Non-Technical Description:

Used fuel assemblies (groups of the metal rods containing irradiated uranium fuel pellets), being stored in the unit's spent fuel pool, are leaking radioactive material. This is causing abnormally high radiation levels in some areas of the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 17.2: Spent Fuel Related Incident
Alert

Brief Non-Technical Description:

Used fuel assemblies (groups of the metal rods containing irradiated uranium fuel pellets), being stored in the unit's spent fuel pool are leaking radioactive material. This is causing very high radiation levels in some areas of the plant. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 17.3.a: Spent Fuel Related Incident
Site Emergency

Brief Non-Technical Description:

Severe damage has occurred to some used fuel assemblies (metal rods containing irradiated uranium fuel pellets) stored in the unit's spent fuel pool. A radioactivity release is possible.

EAL# 17.3.b: Spent Fuel Related Incident
Site Emergency

Brief Non-Technical Description:

Used (irradiated) fuel assemblies in the unit's spent fuel pool are damaged and no longer covered with cooling water. A radioactive release is possible.

EAL# 18.2: Steam Line Break
Alert

Brief Non-Technical Description:

Isolation valves have failed to completely shut off the flow of radioactive steam from the reactor to the turbine-generator. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 18.3: Steam Line Break
Site Emergency

Brief Non-Technical Description:

Isolation valves have failed to properly shut and there is significant flow of radioactive steam from the reactor to areas outside the primary containment.

EAL# 19.1: Toxic/Flammable Gases
Unusual Event

Brief Non-Technical Description:

(Toxic/ flammable) gas has been released (near-site/ on-site). Based on current plant conditions, the safety of the general public is not threatened.

EAL# 19.2: Toxic/Flammable Gases
Alert

Brief Non-Technical Description:

(Toxic/ flammable) gas has entered plant facilities. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 19.3: Toxic/Flammable Gases
Site Emergency

Brief Non-Technical Description:

(Toxic/ flammable) gas has entered areas within plant buildings which contain vital safety equipment (plant vital areas).

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| EAL# 20.1: Technical Specification Safety Limit <i>Unusual Event</i> |
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Brief Non-Technical Description:

An abnormal plant condition has occurred. Based on current plant conditions, the safety of the general public is not threatened.

EAL# 21.1.a: Irradiated Spent Fuel in Dry Storage
Unusual Event

Brief Non-Technical Description:

While transporting the used (spent) fuel assemblies (groups of rods containing irradiated uranium fuel pellets) from the spent fuel pool to the onsite storage facility, radiological readings indicate that the spent fuel or its container may be damaged.

EAL# 21.1.b: Irradiated Spent Fuel in Dry Storage
Unusual Event

Brief Non-Technical Description:

After the used (spent) fuel assemblies (groups of rods containing irradiated uranium fuel pellets) have been transported from the spent fuel pool and placed in the horizontal storage module (a concrete structure which will house the steel canister of spent fuel), radiological readings indicate that the fuel storage system may be damaged.