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SUBJECT: Forwards Central Files version of revised Emergency Procedures (EPs). Procedures withheld, per 10CFR2.790(a) & 10CFR9.17(a).

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Arizona Public Service Company

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10 CFR 50, Appendix E.V

102-03960 - AKK/CJJ

June 20, 1997

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-37
Washington, DC 20555

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Emergency Procedure Update**

In accordance with 10 CFR 50, Appendix E.V, enclosed please find copies of revised PVNGS Emergency Procedures (EPs). The procedures included with this transmittal are indicated on the enclosed list.

The enclosed EPs contain information considered private or proprietary (including names and internal telephone numbers). In accordance with Generic Letter No. 81-27, the specific information has been bracketed on the EPs. Arizona Public Service Company (APS) requests that this information be considered confidential and withheld from public disclosure pursuant to 10 CFR 2.790(a) and 10 CFR 9.17(a).

By copy of this letter, APS is forwarding two copies of the enclosure to the NRC Region IV Office. Copies of the revised EPs are provided to the NRC Resident Inspector's Office as an update to the assigned controlled procedures.

If you have any questions, please contact Scott A. Bauer at (602) 393-5978.

Sincerely,


Angela K. Krainik, Department Leader
Nuclear Regulatory Affairs

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A.P. 45

AKK/CJJ/cj
Enclosure

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ENCLOSURE

REVISED EMERGENCY PROCEDURES LISTING

REVISED PVNGS EMERGENCY PROCEDURES
(16DP-0EP14 Rev. 2)
(16DP-0EP15 Rev. 5)

REVISED EMERGENCY PROCEDURES LISTING

EP NO.	CURRENT REVISION NO.	Page(s) Numbers Marked*
16DP-0EP14	2	13
16DP-0EP15	5	10

*Certain EPs contain information considered private or proprietary (including names, home telephone numbers, and internal and external telephone numbers which must remain available during an emergency). In accordance with Generic Letter No. 81-27, the specific information has been bracketed on the indicated pages. We request this information be considered confidential and withheld from public disclosure pursuant to 10 CFR 2.790(a) and 10 CFR 9.17(a).

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50-528

EFFECTIVE DATE 07-18-96

PROCEDURE INTENT

This procedure provides functional instruction for the activation and operation of the Satellite Technical Support Center.

*Superseded
page per
Revised
Emergency
Procedures
9706260160
6/20/97*



SATELLITE TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP14	Revision: 1
SECTION 1.0 - INTRODUCTION		

1.0 - Introduction

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SATELLITE TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP14	Revision: 1
SECTION 1.0 - INTRODUCTION		

1.0 - Introduction *continued...*

Applicability

This procedure provides functional instruction for the activation and operation of the Satellite Technical Support Center. It should be referenced by Emergency Response personnel when responding to that facility during any classified emergency event.

Content

This Introduction Section of the procedure describes the following:

- ♦ Prerequisites
- ♦ Precautions
- ♦ Limitations

Prerequisites

All of the following conditions have been satisfied:

- ♦ An *NUE* or higher Emergency Classification has been declared.
- ♦ The Satellite Technical Support Center meets minimum activation staffing levels.

Precautions

Emergencies should be classified with a goal of 15 minutes from the time conditions are available as specified in the NRC Position Paper of 01 AUG 95.

If the Satellite Technical Support Center becomes uninhabitable, an Unaffected Unit Satellite Technical Support Center should be selected as an alternate by the Emergency Coordinator. The Radiation Protection Monitor will aid in evaluating and formulating recommendations for relocation.

In the event of a Security Contingency, such as a direct armed attack, assign other personnel to perform the response actions which are normally performed by Security. If the event could endanger arriving personnel due to safety or security conditions, decide where emergency personnel should report and change the initial group pager message appropriately.

If ERFDADS is inoperable, meteorological information required by the Radiological Monitoring Technician can be obtained by dialing the National Weather Service in Phoenix per 16IG-0EP201, Telecommunications, Section 5, Government Agencies (*Federal*), and requesting current meteorological data at PVNGS. For this case, Delta -T will be derived by the Radiological Monitoring Technician. Ensure that the Emergency Coordinator is informed and that someone is sent to the Meteorological Tower for resolution of failure and to obtain local data, if possible.

SECTION 1.0 - INTRODUCTION

1.0 - Introduction *continued...***Limitations**

The Satellite Technical Support Center shall be activated within the time augmentation goals set forth in the PVNGS Emergency Plan (*i.e., immediately following initial emergency declaration*). It is preferred that those individuals required for activation have been briefed on the emergency prior to facility activation.

Notifications to State/County agencies per the Palo Verde NAN Emergency Message Form shall commence within 15 minutes following each initial, upgraded, or downgraded emergency declaration. Notifications to State/County agencies per the Emergency Termination Message Form shall commence within 15 minutes following termination of the emergency declaration.

The NRC shall be contacted immediately following notification of State/County agencies and within 60 minutes following initial, upgraded, or downgraded emergency declarations. The NRC shall be contacted immediately following notification of State/County agencies for emergency declaration termination.

The NRC phone must be manned continuously at the NRC's request by a Senior Reactor Operator, Reactor Operator, or a Shift Technical Advisor.

An Unaffected Unit Shift Technical Advisor shall report to the Satellite Technical Support Center and address core thermohydraulic and engineering parameters within 30 minutes following emergency event declaration until relieved by the Reactor Analyst in the Technical Support Center.

The Emergency Response Data System is required to be activated as soon as possible, but no later than 1 hour, following a declaration of an **Alert** or higher emergency classification.

Assembly is recommended at the **Alert** classification level unless the Emergency Coordinator is reasonably assured that the condition does not have the potential to further degrade. Accountability does not have to be performed immediately following the request for Assembly. In any case, Accountability is required for a **Site Area Emergency** or a **General Emergency** and must be completed within 30 minutes following the request for Accountability.

Although Site Evacuation is optional at the **Site Area Emergency** classification level, it is required at the **General Emergency** level.

continues...

SECTION 1.0 - INTRODUCTION

1.0 - Introduction *continued...***Limitations
(continued)**

The Radiation Protection Monitor shall deploy at least 1 offsite survey team within 30 minutes following emergency declaration of an *Alert* or higher classification when an effluent monitor indicates a higher-than-normal release of radioactive materials is occurring. As appropriate, the team may be dispatched for surveys, advised to stand by, or secured from activities if no radiation release is apparent.

A currently licensed Senior Reactor Operator must approve any suspension of safeguards directed by the Emergency Coordinator prior to taking the action in accordance with the Code of Federal Regulations, Title 10, Part 50.54(y).

**Procedure
Layout**

- ♦ Each section in this procedure is associated with a position within the facility.
- ♦ Each section is organized into topic areas comprising tasks which are required for the individual to perform.
- ♦ Tasks are preceded by check-off lines the individual may use to denote performance of steps or topic areas.
- ♦ Certain areas of procedures may incorporate the use of flowcharts, whereby direction may be specified to proceed, or go to, other areas of the procedure. These other areas are annotated by block labels, such as the block label for this topic area cited by "Procedure Layout" in the immediate left margin scan column. Using this schema, the user should immediately proceed ahead in the document to the specified block label when directed by the flowchart and perform the actions associated with the given topic area.

Procedure Use

Some topic areas in this procedure may not require performance, may require performance more than one time, or may require performance out-of-sequence. The individual should address each, however, to ensure the health and safety of plant personnel and the public are maintained and that regulatory requirements are fulfilled. Instructional Guides may be used in addition to this procedure for areas where detailed guidance is desired to accomplish a particular function.

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.0 - Onshift Emergency Coordinator Function

Duties and Responsibilities

The Onshift Emergency Coordinator assumes management control of the Onshift Emergency Organization upon classification of an emergency event. S/he is in charge of onshift emergency operations and is responsible for direction and coordination of the Onshift Emergency Organization.

The following non-delegable duties are assumed by the Emergency Coordinator upon classification of an emergency event:

- ♦ notification of offsite emergency response agencies and organizations
- ♦ provision of Protective Action Recommendations to offsite emergency management agencies
- ♦ subsequent reclassification of emergency events
- ♦ determination of the necessity for site evacuation
- ♦ authorization for emergency workers to exceed 10.CFR 20 exposure limits
- ♦ activation of onsite and offsite emergency response organizations for an *Alert* or higher emergency classification level

2.1 - Initial Actions

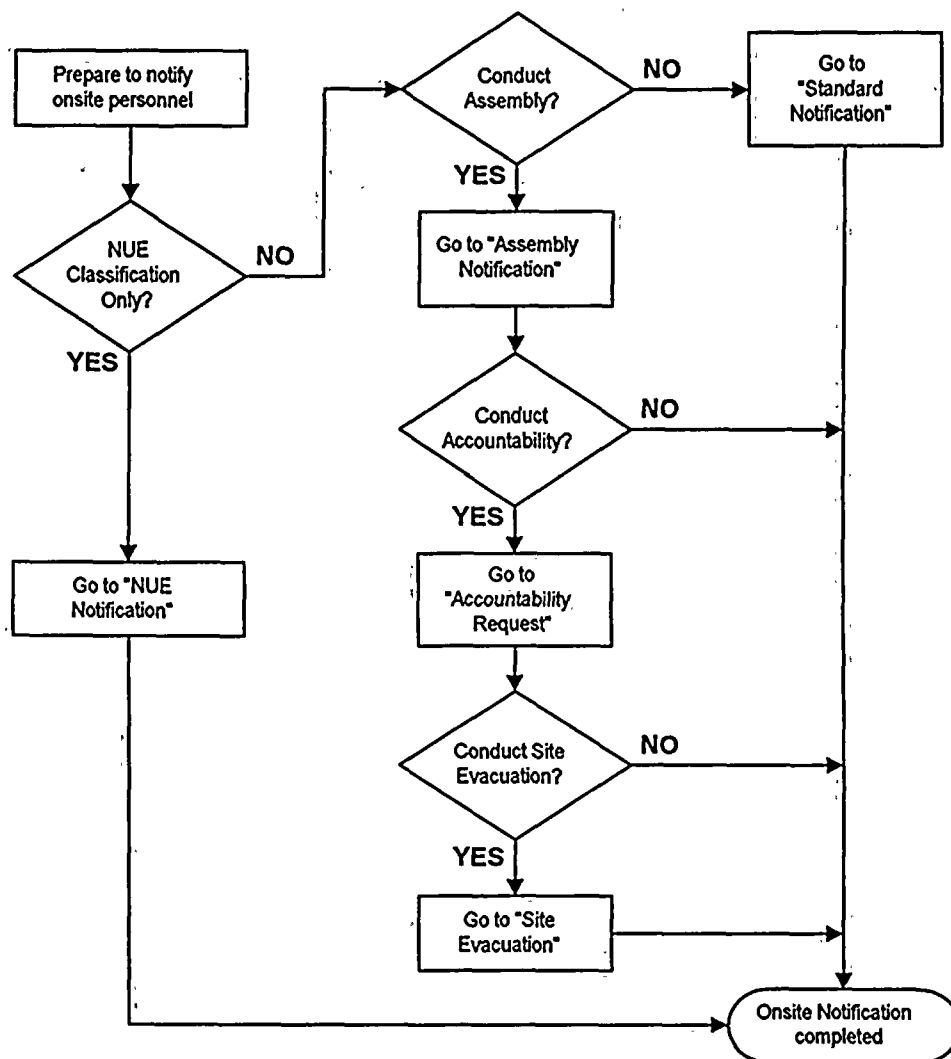
Facility Activation

- Notify the Site Shift Manager of the emergency situation and direct him/her to report to the Affected Unit Control Room and, upon arrival, conduct transfer of Emergency Coordinator responsibilities.
- Record the time and activate the Satellite Technical Support Center with the following required onshift facility personnel support:
 - ♦ Radiation Protection Monitor
 - ♦ Satellite Technical Support Center Communicator
 - ♦ Shift Technical Advisor
- Direct the Satellite Technical Support Center Communicator to complete and transmit Form EP-0541, Palo Verde NAN Emergency Message, to offsite agencies within 15 minutes of emergency event declaration per 16IG-0EP053, Emergency Message Forms.
- Implement 16IG-0EP161, Protective Actions.

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.1 - Initial Actions *continued...*Onsite
Notification
Process
Flowchart

Conduct an onsite notification using the appropriate action as determined by the following flowchart:



SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.1 - Initial Actions *continued...*NUE
Notification

— If the event in progress is currently classified as a Notification of Unusual Event, transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. An emergency situation classified as a Notification of Unusual Event exists in Unit _____. All emergency response personnel stand by until further notice."

(Repeat message once. This responsibility can be delegated.)

— Direct the Security Director to complete supplemental onsite notifications per 16IG-0EP192, Supplemental Onsite Notifications.

Standard
Notification

— If Assembly is not to be conducted, transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. An emergency situation classified as a _____ exists in Unit _____. All emergency response personnel report to your emergency location. All other personnel stand by until further notice."

(Provide instructions on areas to avoid as appropriate. Repeat message once. This responsibility can be delegated.)

— Direct the Security Director to complete supplemental onsite notifications per 16IG-0EP192, Supplemental Onsite Notifications.

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.1 - Initial Actions *continued...*Assembly
Notification

-
- ___ If Assembly is to be conducted, perform the following:
- ◆ Sound the Unit Assembly Signal for approximately 30 seconds.
 - ◆ Transmit the following message over the Unit Evacuation System:
"Attention all plant personnel. Attention all plant personnel. An emergency situation classified as a _____ exists in Unit _____. Assembly is required. All personnel report to your designated Assembly Area."

(Provide instructions on areas to avoid as appropriate. Repeat sounding the Unit Assembly Signal and the message once.)
- ___ Direct the Security Director to complete supplemental onsite notifications per 16IG-0EP192, Supplemental Onsite Notifications.
- ___ Return to the Onsite Notification Process Flowchart, if appropriate.
-

Accountability
Request

-
- ___ If Accountability is to be conducted after Assembly, perform the following:
- ◆ Request CAS Security personnel (*verbally or via telephone*) to perform Accountability and to provide the report within 30 minutes.
 - ◆ Advise the Security Director to locate any unaccounted individuals.
- ___ Return to the Onsite Notification Process Flowchart, if appropriate.
-

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.1 - Initial Actions *continued...*Site
Evacuation

-
- If Site Evacuation is to be conducted, determine the evacuation route / site egress point *(with input from the Radiation Protection Monitor)*.
 - Instruct the Security Director to complete both the supplemental onsite notifications per 16IG-0EP192, Supplemental Onsite Notifications, and the organization / security actions for a Site Evacuation per 16IG-0EP191, Site Evacuation.
 - When actions to organize the evacuation have been completed and security measures have been established, transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. Site evacuation for non-essential personnel is required. Proceed to your own vehicles and follow the instructions from Security."
 - Sound the Site Evacuation Signal for approximately 30 seconds.

(Repeat the message once.)
-

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.2 - Subsequent Actions

Follow-up

Perform the following actions as required:

IF...	THEN...
the Shift Technical Advisor time required actions need to be addressed	Direct the Shift Technical Advisor(s) to assess core damage within 30 minutes, to notify the USNRC within 1 hour, and to activate the Emergency Response Data System within 1 hour, if appropriate.
dose projection requirements need to be addressed	Direct the Radiation Protection Monitor to deploy at least 1 offsite survey team within 30 minutes and obtain the dose assessment data necessary to complete a dose projection.
the other Units need to be informed of the event	Notify the Unaffected Units' Shift Supervisors of the emergency.

Status

Perform the following actions as required:

IF...	THEN...
reclassification of the emergency is required	Implement 16DP-0EP13, Emergency Classification.
you need a plant status update from Control Room personnel	Review initiating event, plant status, emergency classification, Emergency Operating Procedure in use, and corrective actions with Control Room personnel.
a briefing to Satellite Technical Support Center staff is indicated	Conduct Satellite Technical Support Center briefings based on plant conditions and other problems.
activation of the Operations Support Center is indicated	Determine activation requirements and call the facility to ensure readiness.
additional information to Arizona Radiation Regulatory Agency is necessary	Direct the Satellite Technical Support Center Communicator to prepare Form EP-0542, Follow-up Emergency Message, per 16IG-0EP053, Emergency Message Forms.

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.2 - Subsequent Actions *continued...*Protective
Measures

Perform the following actions as required:

IF...	THEN...
a change to the emergency classification is indicated	Direct the Satellite Technical Support Center Communicator to complete and transmit Form EP-0541, Palo Verde NAN Emergency Message, to offsite agencies within 15 minutes of emergency classification per 16IG-0EP053, Emergency Message Forms.
the Satellite Technical Support Center is deemed uninhabitable	Authorize emergency exposures as necessary. Adjust stay times of Satellite Technical Support Center personnel to minimize exposure. Relocate personnel to an Unaffected Unit Satellite Technical Support Center, if necessary.
use of Potassium Iodide is indicated	Consult with the Radiation Protection Monitor regarding the use of Potassium Iodide and authorize administration of Potassium Iodide to personnel per 16IG-0EP051, Emergency Exposures and KI.
the Operations Support Center is deemed uninhabitable	Direct the Operations Support Center Coordinator to relocate staff, equipment, and supplies to an Alternate Operations Support Center in a designated Unaffected Unit. Ensure that radiological precautions are observed.
a fire response is indicated	Implement 14AC-0FP02, Emergency Notification and Response, and dispatch the Fire Team / Fire Team Advisor. If required, instruct the Security Director to contact the alternate offsite fire department for assistance.
a medical response is indicated	Implement 14AC-0FP02, Emergency Notification and Response, and 14DP-0FP11, Emergency Medical Response. Contact x4444 and advise. If necessary, dispatch an Emergency Medical Team and coordinate any required offsite assistance.

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.2 - Subsequent Actions *continued...*

Security

Perform the following actions as required:

IF...	THEN...
offsite assistance is required	Request the Security Director to call the appropriate organizations referenced in 16IG-0EP201, Telecommunications, and to arrange for access when assistance arrives.
site access needs to be restricted	Instruct the Security Director to limit access to PVNGS and to contact the Local Law Enforcement Agency for assistance, if required.
site access is required for offsite assistance personnel	Instruct the Security Director to arrange access for personnel not registered on the Emergency Response Personnel Access List and/or those individuals without Protected Area access.

Repairs

Perform the following actions as required:

IF...	THEN...
in-plant status information is required	Determine the scope of emergency repairs, radiological surveys, etc. Authorize team dispatch per 16DP-0EP16, Operations Support Center Actions.
an accident sample is required	Direct Chemistry to initiate the actions necessary to obtain accident sampling and analysis per 16DP-0EP18, Accident Sampling.
an alternate source of Spray Pond inventory is required	Direct Maintenance and Engineering to implement actions necessary to restore Spray Pond inventory.
the disposition of contaminated water in secondary systems is required	Implement 74DP-9ZZ14, Contaminated Water Management Program.

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.2 - Subsequent Actions *continued...*Turnover of
Duties

-
- When consulted by the Onsite Emergency Coordinator in an *Alert* or higher emergency classification, provide a briefing on the following items:
- ♦ initiating event
 - ♦ emergency classification(s)
 - ♦ current plant status
 - ♦ procedures in use
 - ♦ corrective actions applied thus far
- When both the Satellite Technical Support Center Communicator and the Radiation Protection Monitor have been relieved of their duties, transfer EC duties and responsibilities to the Onsite Emergency Coordinator.
- Ensure that the USNRC Liaison in the Technical Support Center has assumed continuous communications capabilities with the USNRC.
-

2.3 - Terminal Actions

Event
Downgrade

-
- Address the following items prior to downgrading the event:
- ♦ Conditions requiring the current emergency classification level no longer exist.
 - ♦ The anticipated plant response is such that there should be no degradation to any fission product barriers or increase in radiation releases.
 - ♦ Present plant conditions are such that there is no possibility of an adverse impact on the health and safety of the public and plant personnel due to actions associated with event downgrade.
 - ♦ Consultation with government agencies and the Emergency Operations Director, if appropriate, has taken place.
- Transmit the following message over the Unit Evacuation System:
- "Attention all plant personnel. Attention all plant personnel. The emergency situation declared in Unit ____ has now been downgraded to a ____."
- (Provide special instructions as necessary. Repeat the message once.)*
-

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.3 - Terminal Actions *continued...*Event
Termination

— Address the following items prior to terminating the event:

- ♦ The anticipated plant response is such that there should be no challenge to any fission product barriers or radiation releases in excess of Technical Specifications.
- ♦ Present plant conditions offer no possibility of an adverse impact on the health and safety of the public and plant personnel.
- ♦ Consultation with government agencies and the Emergency Operations Director, if appropriate, has taken place.

— If Assembly had been initiated, sound the "All Clear" Signal for approximately 30 seconds.

— Transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. The emergency situation declared in Unit ____ has now been terminated."

(Provide special instructions as necessary. As appropriate, repeat sounding the "All Clear" Signal and the message once.)

— Direct the Satellite Technical Support Center Communicator to complete Form EP-0543, Emergency Termination Message, per 16IG-0EP053, Emergency Message Forms, and transmit it to those government agencies listed on the form.

— Direct the Shift Technical Advisor to notify the USNRC as soon as possible of emergency termination.

— Notify the Unaffected Units' Shift Supervisors of emergency termination.

— At termination of the emergency classification, notify the PVNGS Nuclear Regulatory Affairs Department or the respective Unit Duty Engineer and request a written summary be provided to state / county offsite authorities within 8 hours *(5 days if terminated from a Notification of Unusual Event)*.

(Provide copies of required materials, as requested by the Nuclear Regulatory Affairs Department, for preparation of the report.)

SECTION 2.0 - ONSHIFT EMERGENCY COORDINATOR

2.3 - Terminal Actions *continued...*Record
Retention

— Transfer copies of all associated paperwork to the Emergency Planning Department. Forward all original paperwork to the Unit Operations Department for sorting, collating, and transfer to Nuclear Information Records Management.

SECTION 3.0 - OPERATIONS ADVISOR

3.0 - Operations Advisor Function

Duties and Responsibilities

The Operations Advisor is the management liaison in the Satellite Technical Support Center / Control Room and, as such, performs continuing analyses of plant conditions and maintains the Shift Supervisor and Emergency Coordinator advised of technical / operational information. The Operations Advisor is responsible to maintain a flow of information between the Technical Support Center and the Control Room. S/he ensures accurate data is provided to the Operations Coordinator in the Technical Support Center and may assist in the development of specialized procedures for the conduct of emergency operations.

This position is activated and reportable to the Satellite Technical Support Center upon notification and reports to the Emergency Coordinator through subsequent relief of that position.

3.1 - Initial Actions

Facility Activation

When duties have been assumed and an informational briefing has been received, consult with the Control Room Shift Supervisor and determine the technical / operational aspects of the event(s) in progress.

3.2 - Subsequent Actions

Status

When contacted by the Operations Coordinator in the Technical Support Center, provide the technical and operational aspects of the event(s) in progress to the Operations Coordinator, when appropriate.

As required, provide technical and operational guidance to the Emergency Coordinator and Operations personnel.

Assist, as necessary, in reclassification of the emergency and in any development of procedures for emergency operations.

Provide analysis of containment conditions prior to entry per 02AC-9ZZ01, Containment Entry in Modes 1 Through 4.



SECTION 3.0 - OPERATIONS ADVISOR

3.3 - Terminal Actions

Record
Retention

Submit logs, data, and other documentation to the Shift Supervisor after event termination.

SECTION 4.0 - RADIATION PROTECTION MONITOR

4.0 - Radiation Protection Monitor Function

Duties and
Responsibilities

The Radiation Protection Monitor oversees the initial radiological response to the emergency condition until relieved by the Radiological Protection Coordinator in the Technical Support Center and the Radiological Assessment Coordinator in the Emergency Operations Facility. S/he provides technical advice to the Emergency Coordinator regarding radiological conditions and Protective Action Recommendations and is responsible to ensure that habitability surveys and contamination control measures are maintained in the Protected Area. Other duties include the authorization of personnel radiation exposures in excess of PVNGS Administrative Exposure Hold Points and advising the Emergency Coordinator on the use of Potassium Iodide. S/he is responsible for deployment of offsite radiological field assessment teams following declaration of an *Alert* or higher classification.

The Radiation Protection Monitor reports to the Onshift Emergency Coordinator in the Satellite Technical Support Center.

4.1 - Initial Actions

Facility
Activation

- When duties have been assumed and an informational briefing has been received, deploy at least 1 offsite survey team within 30 minutes following emergency declaration of an *Alert* or higher classification when an effluent monitor indicates that a higher-than-normal release of radioactive materials is occurring. *(The team may be dispatched for surveys, advised to stand by, or secured from activities if no radiation release is apparent.)*
- Ensure that radiological dose projection actions are performed in accordance with 16IG-0EP041, Dose Projection.
- Based upon completed dose projections, advise the Emergency Coordinator on the need and level of protective actions required per 16IG-0EP161, Protective Actions.

SECTION 4.0 - RADIATION PROTECTION MONITOR

4.2 - Subsequent Actions

Onsite Protective Measures

Perform the following actions as required:

IF...	THEN...
knowledge of in-plant radiological conditions is required	Direct habitability surveys and contamination control measures as necessary.
the status of 140' Auxiliary Building RP and Chemistry equipment and supplies is required	Determine the availability of the following: <ul style="list-style-type: none">♦ emergency supplies♦ Multi-channel analyzer♦ sample counting capabilities
knowledge of personnel locations in the Protected Area is required	Determine the following: <ul style="list-style-type: none">♦ personnel traffic routes / areas♦ entry and exit routes♦ personnel protection requirements
Protected Area radiological conditions could impact personnel	Ensure the following items are addressed: <ul style="list-style-type: none">♦ Operations and support personnel are briefed♦ Security is informed of current conditions♦ Operations Support Center habitability is maintained, if applicable♦ survey / repair teams are briefed♦ team stay times have been calculated
the potential for airborne Iodine exists	Issue EDE / TEDE SID limits to affected teams.
an impact to Satellite Technical Support Center habitability exists	Advise the Emergency Coordinator of the need to relocate Satellite Technical Support Center functions to an Unaffected Unit Satellite Technical Support Center.
Emergency Exposure Guide-lines or KI distribution must be authorized	Refer to 16IG-0EP051, Emergency Exposures and KI, for details.

continues...

SECTION 4.0 - RADIATION PROTECTION MONITOR

4.2 - Subsequent Actions *continued...*Onsite Protective
Measures
(*continued*)

Perform the following actions as required:

IF...	THEN...
Assembly has been directed by the Emergency Coordinator	Evaluate Protected Area Assembly Areas for potential radiological impact.
additional personnel and/or materials are required	Contact Radiation Protection in the Unaffected Units for additional personnel and/or materials.

Offsite Protective
Measures

Perform the following actions as required:

IF...	THEN...
the Radiological Monitoring Technician requests radiological and/or meteorological data	retrieve radiological and/or meteorological data from ERFDADS using the P&ID DISPLAYS. <i>(If ERFDADS is unavailable, contact the National Weather Service in Phoenix per 16IG-0EP201, Telecommunications, Section 5, Government Agencies (Federal), for current meteorological data at PVNGS.)</i>
a parameter affecting the current Protective Action Recommendation has changed	Inform the Emergency Coordinator that a change to the current Protective Action Recommendation may be required. Discuss options for site evacuation or onsite sheltering as required.
knowledge of personnel locations beyond the Protected Area is required	Determine personnel traffic areas, entry and exit routes, and personnel protection requirements. Maintain status of offsite survey teams and record data to aid in plume tracking.
Site Evacuation and/or Potassium Iodide administration is indicated	Refer to 16IG-0EP191, Site Evacuation, and 16IG-0EP051, Emergency Exposures and KI, for details.

SECTION 4.0 - RADIATION PROTECTION MONITOR

4.3 - Terminal Actions

Turnover of Duties

- Transfer onsite responsibilities to the Radiological Protection Coordinator in the Technical Support Center except for habitability survey and contamination control of the Satellite Technical Support Center / Control Room.
- Provide information to the Radiological Protection Coordinator in the Technical Support Center of the location and status for all Protected Area survey teams.
- Transfer responsibilities and provide information to the Radiological Assessment Coordinator in the Emergency Operations Facility of the location, status, deployment times, and data obtained for all offsite survey teams.
- Discontinue providing data to the Radiological Monitoring Technician.
- Provide analysis of containment conditions based on ALARA prior to entry per 02AC-9ZZ01, Containment Entry in Modes 1 Through 4.

Radiation Instrumentation

- Ensure that dose rate meters from the emergency kit are transmitted to the calibration facility for calibration and required maintenance.

Recovery

- If decontamination is necessary, contact the Radiological Services Manager for disposition per 16IG-0EP182, Recovery Organization.

Record Retention

- Submit logs, data, and other documentation to the Emergency Coordinator or Shift Supervisor after event termination.

SECTION 5.0 - SATELLITE TECHNICAL SUPPORT CENTER COMMUNICATOR

5.0 - Satellite Technical Support Center Communicator Function

Duties and Responsibilities

The Satellite Technical Support Center Communicator is responsible for performing initial and subsequent offsite management agency notifications upon declaration of an emergency event. S/he is relieved of this responsibility by the Government Liaison in the Emergency Operations Facility upon that facility's activation, after which s/he may serve as the communicator and log keeper for the facility. The Satellite Technical Support Center Communicator position is assumed by a Nuclear Operator or an Operations Technician upon notification.

The Satellite Technical Support Center Communicator reports to the Emergency Coordinator in the Satellite Technical Support Center.

5.1 - Initial Actions

Facility Activation

- When notified to report to the Control Room / Satellite Technical Support Center, report to the facility for an Emergency Coordinator briefing.
- As directed, perform the actions associated with offsite agency notifications in accordance with 16IG-0EP053, Emergency Message Forms.

5.2 - Subsequent Actions

Status

- Maintain the Emergency Coordinator advised of issues or potential problems regarding the notification process.

Turnover of Duties

- Transfer duties and responsibilities for offsite notifications to the Government Liaison in the Emergency Operations Facility when contacted.
- If requested, transmit a copy of the current Form EP-0541, Palo Verde NAN Emergency Message, by facsimile (FAX) to the Emergency Operations Facility.
- Maintain communications and logs for the facility as required.

SECTION 5.0 - SATELLITE TECHNICAL SUPPORT CENTER COMMUNICATOR

5.3 - Terminal Actions

Record
Retention

____ Submit logs, data, and other documentation to the Emergency
Coordinator after event termination.

SECTION 6.0 - SECURITY DIRECTOR

6.0 - Security Director Function**Duties and Responsibilities**

The Security Director provides for continued personnel accountability and site access control. Upon direction from the Emergency Coordinator, s/he performs initial notifications to onsite and offsite emergency response personnel.

The Security Director position is assumed by the Security Team Leader and is reportable to the Emergency Coordinator in the Satellite Technical Support Center, but is not required to report to the facility.

6.1 - Initial Actions**Autodialer
Emergency
Notification**

- If necessary, assign a Security Shift Sergeant to report to Security Headquarters and fulfill the Security Team Leader duties and responsibilities.
- Within 30 minutes of emergency declaration, verify proper operation of the Technical Support Center emergency ventilation per 16IG-0EP055, Emergency Ventilation.
- For off-normal shift hours only, activate the Autodialer as directed per 16IG-0EP013, Autodialer Activation.
- When emergency notifications have been completed, inform the Emergency Coordinator of any unaffirmed Emergency Response Organization positions.

6.2 - Subsequent Actions**Status**

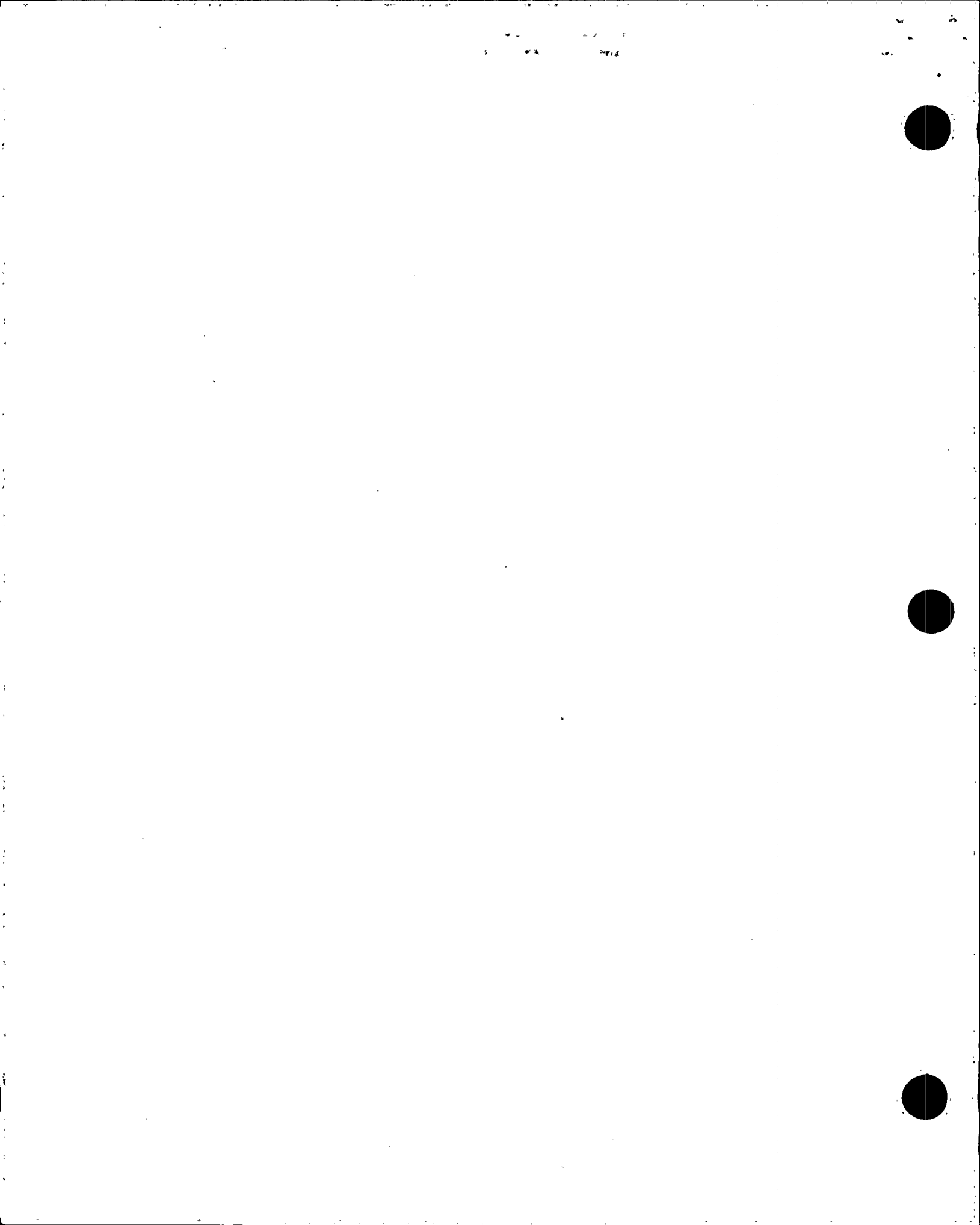
- As necessary, inform the Emergency Coordinator of any potential impacts or projected consequences to security by the events in progress.
- Stand by for further instructions.

SECTION 6.0 - SECURITY DIRECTOR

6.3 - Terminal Actions

Record
Retention

Submit logs, data, and other documentation to the Emergency Coordinator after event termination.



SECTION 6.0 - SHIFT TECHNICAL ADVISOR

7.0 - Shift Technical Advisor Function

**Duties and
Responsibilities**

The Onshift Shift Technical Advisor consults with the Shift Supervisor on activities that impact safe operation of the Unit. S/he monitors various data displays throughout the course of the emergency and provides electrical and mechanical technical support to Control Room personnel. Duties of the Unaffected Shift Technical Advisor(s) include monitoring core thermohydraulic parameters, interfacing with the Emergency Coordinator and Radiation Protection Monitor, communicating plant system status updates, fulfilling responsibilities associated with USNRC communications, and supporting the Onshift Shift Technical Advisor.

The Shift Technical Advisors report to the Shift Supervisor in the Control Room. The Unaffected Shift Technical Advisor(s) are relieved by the Reactor Analyst in the Technical Support Center upon that facility's activation.

7.1 - Initial Actions

**Facility
Activation**

The Onshift Shift Technical Advisor will perform the following action(s):

- Assess the status of plant systems and critical plant parameters as directed by the Shift Supervisor and/or procedures.
- For an *Alert* or higher Emergency Classification, activate the Emergency Response Data System in accordance with 16IG-0EP054, Emergency Response Data System.
- Contact technical support personnel as required.

The Unaffected Shift Technical Advisor(s) will perform the following actions(s):

- When duties have been assumed and an informational briefing has been received, assess the status of plant systems and core thermohydraulic parameters.
- Establish contact with the Plant Status Technicians in the Technical Support Center and Emergency Operations Facility, if activated, and arrange a 3-way conference call for communicating 15-minute plant system status updates.

SECTION 6.0 - SHIFT TECHNICAL ADVISOR

7.2 - Subsequent Actions

Status

The Onshift Shift Technical Advisor will perform the following actions as required:

- ___ Continue assessments and assist Control Room personnel.
- ___ Periodically brief the Shift Supervisor concerning plant status, availability of support personnel, and corrective action recommendations.

The Unaffected Shift Technical Advisor(s) will perform the following action(s):

- ___ Continue assessments of plant systems and core thermohydraulic parameters.
- ___ Provide a status of plant conditions to the Emergency Coordinator and Radiation Protection Monitor on a periodic basis.
- ___ Obtain an Event Notification Worksheet from the Event Reporting Manual and complete the form fields as completely as possible.
- ___ Using the Event Notification Worksheet and within 1 hour of initial, upgraded, or downgraded emergency classification, notify the USNRC Operations Center via the FTS-2000 (ENS) NRC telephone.
- ___ Maintain contact with the USNRC until relieved by the USNRC Liaison Operations in the Technical Support Center.
- ___ Maintain assessments of plant systems and core thermohydraulic parameters until relieved by the Reactor Analyst in the Technical Support Center.
- ___ Provide support to the Onshift Shift Technical Advisor as required.

7.3 - Terminal Actions

Record
Retention

- ___ Submit logs, data, and other documentation to the Shift Supervisor after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4

PROCEDURE INTENT

This procedure provides functional instruction for the activation and operation of the Technical Support Center.

EFFECTIVE DATE 05-16-97

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 1.0 - INTRODUCTION		

1.0 - Introduction

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SECTION 1.0 - INTRODUCTION

1.0 - Introduction *continued...***Applicability**

This procedure provides functional instruction for the activation and operation of the Technical Support Center. It should be referenced by Emergency Response personnel when responding to that facility during any event classified at an **Alert** or higher emergency classification.

Content

This Introduction Section of the procedure describes the following:

- ♦ Prerequisites
- ♦ Precautions
- ♦ Limitations

Prerequisites

All of the following conditions have been satisfied:

- ♦ An **Alert** or higher Emergency Classification has been declared.
- ♦ The Technical Support Center meets minimum activation staffing levels.

Precautions

Emergencies should be classified with a goal of 15 minutes from the time conditions are available as specified in the NRC Position Paper of 01 AUG 95.

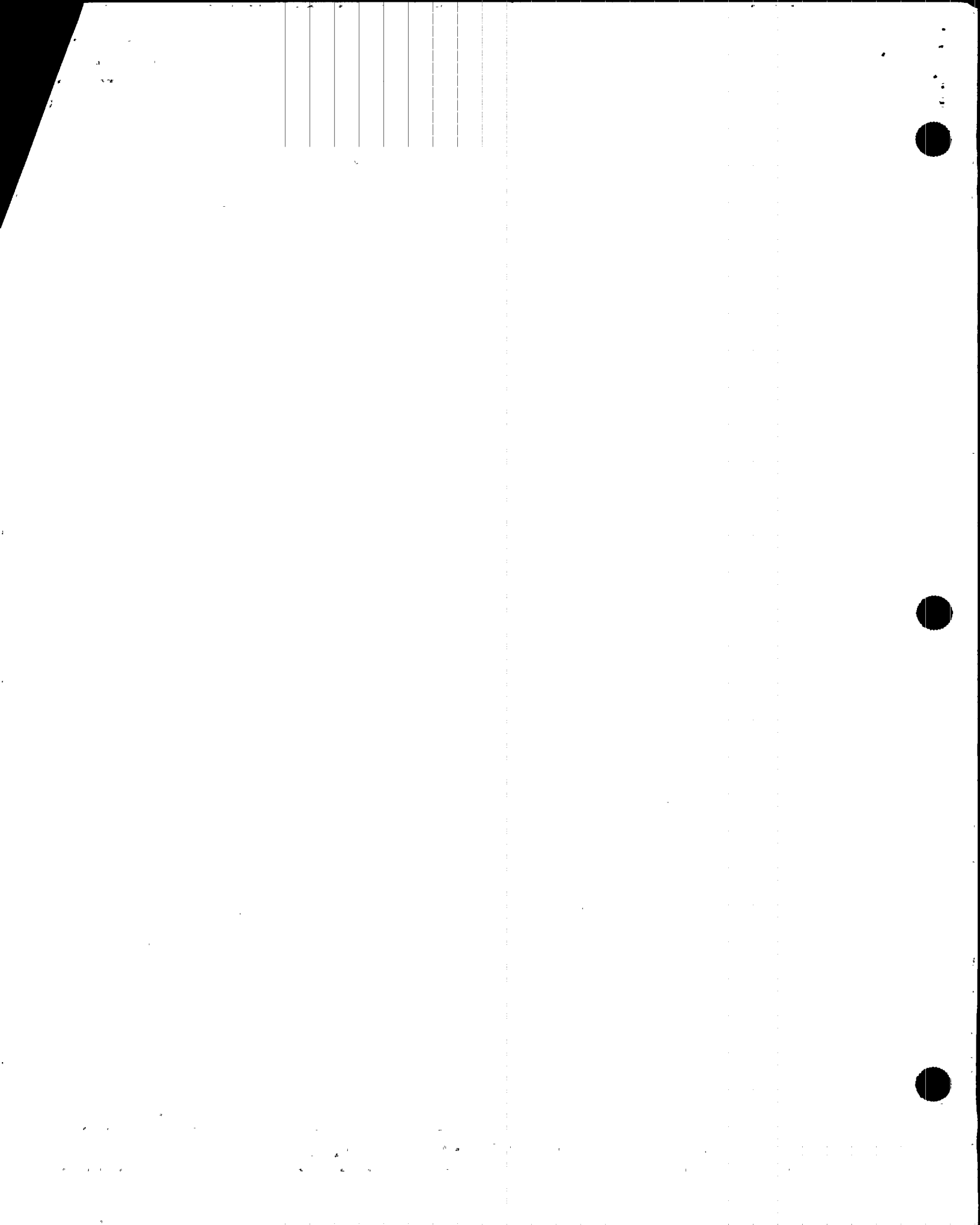
If the Technical Support Center becomes uninhabitable, the Emergency Operations Facility or other habitable facility may be selected as an alternate by the Emergency Coordinator. The Radiation Protection Coordinator will aid in evaluating and formulating recommendations for relocation.

Limitations

The Technical Support Center shall be activated within the time augmentation goals set forth in the PVNGS Emergency Plan (*i.e., 1 hour during normal work hours and 1-2 hours during off-normal work hours*). It is preferred that those individuals required for activation have been briefed on the emergency prior to facility activation.

Notifications to State/County agencies shall commence within 15 minutes following each change in the emergency classification or following termination of the emergency declaration.

continues...



SECTION 1.0 - INTRODUCTION

1.0 - Introduction *continued...***Limitations
(continued)**

The NRC shall be contacted immediately following notification of State/County agencies and within 60 minutes following initial, upgraded, or downgraded emergency declarations. The NRC shall be contacted immediately following notification of State/County agencies for emergency declaration termination.

The NRC phone must be manned continuously at the NRC's request by a Senior Reactor Operator, Reactor Operator, or a Shift Technical Advisor.

The Emergency Response Data System is required to be activated as soon as possible, but no later than 1 hour, following a declaration of an **Alert** or higher emergency classification.

Assembly is recommended at the **Alert** classification level unless the Emergency Coordinator is reasonably assured that the condition does not have the potential to further degrade. Accountability does not have to be performed immediately following the request for Assembly. In any case, Accountability is required for a **Site Area Emergency** or a **General Emergency** and must be completed within 30 minutes following the request for Accountability.

Although Site Evacuation is optional at the **Site Area Emergency** classification level, it is required at the **General Emergency** level.

A currently licensed Senior Reactor Operator must approve any suspension of safeguards directed by the Emergency Coordinator prior to taking the action in accordance with the Code of Federal Regulations, Title 10, Part 50.54(y).

**Procedure
Layout**

- ♦ Each section in this procedure is associated with a position within the facility.
- ♦ Each section is organized into topic areas comprising tasks which are required for the individual to perform.
- ♦ Tasks are preceded by check-off lines the individual may use to denote performance of steps or topic areas.
- ♦ Certain areas of procedures may incorporate the use of flowcharts, whereby direction may be specified to proceed, or go to, other areas of the procedure. These other areas are annotated by block labels, such as the block label for this topic area cited by "Procedure Layout" in the immediate left margin scan column. Using this schema, the user should immediately proceed ahead in the document to the specified block label when directed by the flowchart and perform the actions associated with the given topic area.

SECTION 1.0 - INTRODUCTION

1.0 - Introduction *continued...***Procedure Use**

Some topic areas in this procedure may not require performance, may require performance more than one time, or may require performance out-of-sequence. The individual should address each, however, to ensure the health and safety of plant personnel and the public are maintained and that regulatory requirements are fulfilled. Instructional Guides may be used in addition to this procedure for areas where detailed guidance is desired to accomplish a particular function.

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SECTION 2.0 - ONSITE EMERGENCY COORDINATOR		

2.0 - Onsite Emergency Coordinator Function

Duties and Responsibilities

The Onsite Emergency Coordinator assumes management control of the Onsite Emergency Organization when relieving the Onshift Emergency Coordinator. The Onsite Emergency Coordinator is in charge of onsite emergency operations and is responsible for direction and coordination of the Onsite Emergency Organization.

The primary duties of the Onsite Emergency Coordinator are to manage the Onsite Emergency Organization by:

- ♦ Diagnosing plant conditions
- ♦ Identifying and implementing corrective actions
- ♦ Coordinating onsite emergency activities
- ♦ Implementing protective actions for station personnel
- ♦ Communicating with offsite agencies until activation of the Emergency Operations Facility

2.1 - Initial Actions

Facility Activation

— Relieve the Onshift Emergency Coordinator of Emergency Coordinator functions when Onshift Emergency Coordinator turnover conditions have been satisfied.

— Record the time and activate the Technical Support Center when the following required facility personnel have arrived:

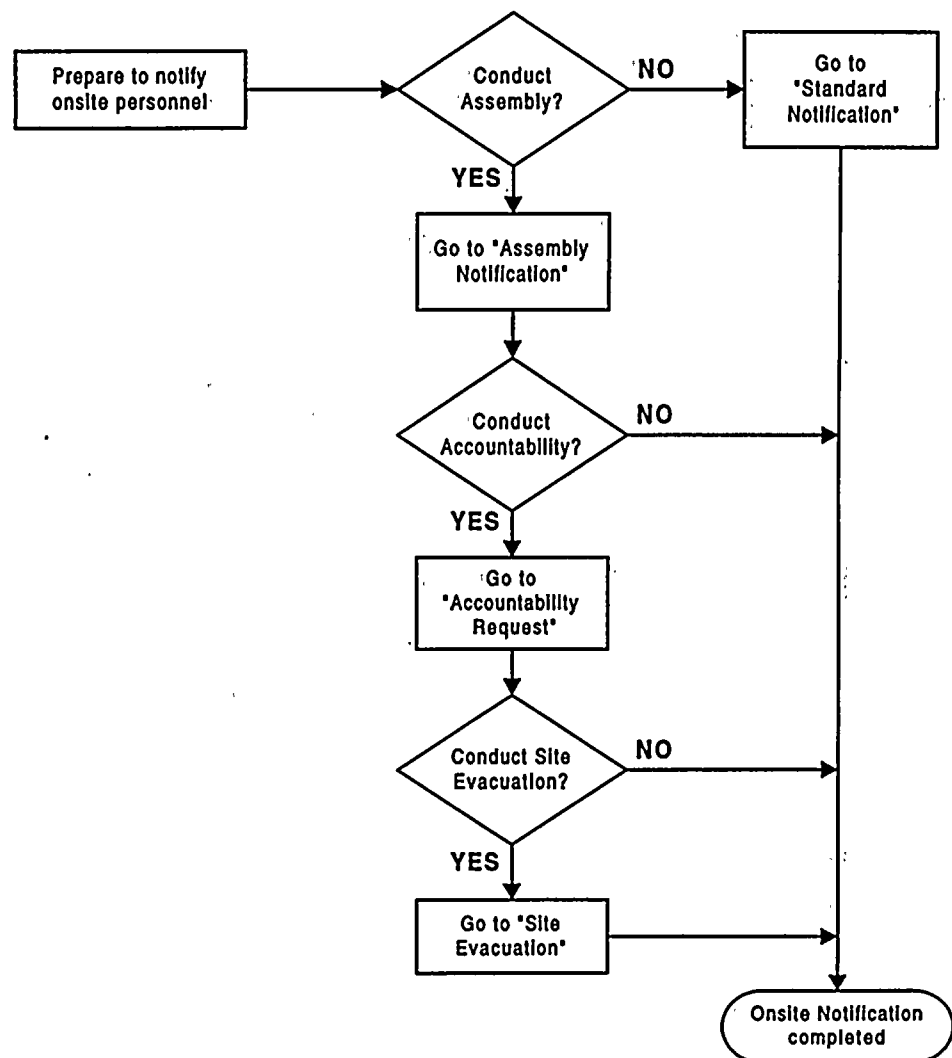
- ♦ Electrical Engineer
- ♦ Emergency Maintenance Coordinator
- ♦ Mechanical Engineer
- ♦ Operations Coordinator
- ♦ Radiological Protection Coordinator
- ♦ Security Director
- ♦ Technical Engineering Manager

— When facility emergency response personnel have assumed their duties and responsibilities, notify the other emergency response facilities that the Technical Support Center has been activated.

SECTION 2.0 - ONSITE EMERGENCY COORDINATOR

2.1 - Initial Actions *continued...*Onsite
Notification
Process
Flowchart

Conduct an onsite notification using the appropriate action as determined by the following flowchart:



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SECTION 2.0 - ONSITE EMERGENCY COORDINATOR		

2.1 - Initial Actions *continued...*

Standard Notification

___ If Assembly is not to be conducted, transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. An emergency situation classified as a _____ exists in Unit _____. All emergency response personnel report to your emergency location. All other personnel stand by until further notice."

(Provide instructions on areas to avoid as appropriate. Repeat message once. This responsibility can be delegated.)

___ Direct the Security Director to complete supplemental onsite notifications.

Assembly Notification

___ If Assembly is to be conducted, perform the following:

- ◆ Sound the Unit Assembly Signal for approximately 30 seconds.
- ◆ Transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. An emergency situation classified as a _____ exists in Unit _____. Assembly is required. All personnel report to your designated Assembly Area."

(Provide instructions on areas to avoid as appropriate. Repeat sounding the Unit Assembly Signal and the message once.)

___ Direct the Security Director to complete supplemental onsite notifications.

___ Return to the Onsite Notification Process Flowchart, if appropriate.

Accountability Request

___ If Accountability is to be conducted after Assembly, perform the following:

- ◆ Request CAS Security personnel (*verbally or via telephone*) to perform Accountability and to provide the report within 30 minutes.
- ◆ Advise the Security Director to locate any unaccounted individuals.

___ Return to the Onsite Notification Process Flowchart, if appropriate.

SECTION 2.0 - ONSITE EMERGENCY COORDINATOR

2.1 - Initial Actions *continued...*Site
Evacuation

-
- If Site Evacuation is to be conducted, determine the evacuation route / site egress point *(with input from the Radiological Protection Coordinator)*.
 - Instruct the Security Director to complete both the supplemental onsite notifications and the organization / security actions for a Site Evacuation.
 - When actions to organize the evacuation have been completed and security measures have been established, transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. Site evacuation for non-essential personnel is required. Proceed to your own vehicles and follow the instructions from Security."
 - Sound the Site Evacuation Signal for approximately 30 seconds.

(Repeat the message once.)
-

2.2 - Subsequent Actions

Status

 Perform the following actions as required:

IF...	THEN...
reclassification of the emergency is required	Implement 16DP-0EP13, Emergency Classification.
you need a plant status update from the Control Room	Review plant status, initiating event, emergency classification, and corrective actions with Control Room personnel.
a briefing to your staff is indicated	Conduct Technical Support Center briefings based on plant conditions and other problems.
recovery implementation is appropriate at this time	Consult with the Emergency Operations Director for implementation of recovery operations.

SECTION 2.0 - ONSITE EMERGENCY COORDINATOR

2.2 - Subsequent Actions *continued...*Protective
Measures

Perform the following actions as required:

IF...	THEN...
the emergency classification or current Protective Action Recommendation has changed	Inform the Emergency Operations Director of any event or Protective Action Recommendation changes. Discuss options for site evacuation, onsite sheltering, or early dismissal of personnel as required.
Technical Support Center dose rates are rising	Authorize emergency exposures as necessary. Adjust stay times of Technical Support Center personnel to minimize exposure. Relocate personnel to the Emergency Operations Facility, if necessary.
use of Potassium Iodide is indicated	Consult with the Radiation Protection Monitor regarding the use of Potassium Iodide and authorize administration of Potassium Iodide to personnel as required.
the Operations Support Center is deemed uninhabitable	Direct the Operations Support Center Coordinator to relocate staff, equipment, and supplies to an Alternate Operations Support Center in a designated Unaffected Unit. Ensure that radiological precautions are observed.
a fire response is indicated	Implement 14DP-0FP32, Emergency Notification and Response, and dispatch the Fire Team / Fire Team Advisor. If required, instruct the Security Director to contact the alternate offsite fire department for assistance.
a medical response is indicated	Implement 14DP-0FP32, Emergency Notification and Response, and 14DP-0FP11, Emergency Medical Response. Contact [X4444] and advise. If necessary, dispatch an Emergency Medical Team and coordinate any required offsite assistance.

SECTION 2.0 - ONSITE EMERGENCY COORDINATOR

2.2 - Subsequent Actions *continued...*

Security

Perform the following actions as required:

IF...	THEN...
offsite assistance is required	Request Emergency Operations Facility staff to call the appropriate offsite assistance organizations. Instruct the Security Director to arrange for access when assistance arrives.
site access needs to be restricted	Instruct the Security Director to limit access to PVNGS and to contact the Local Law Enforcement Agency for assistance, if required.
site access is required for offsite assistance personnel	Instruct the Security Director to arrange access for personnel not registered on the Emergency Response Personnel Access List and/or those individuals without Protected Area access.

Repairs

Perform the following actions as required:

IF...	THEN...
in-plant status information is required	Determine the scope of emergency repairs, radiological surveys, etc. Authorize team dispatch per 16DP-0EP16, Operations Support Center Actions.
an accident sample is required	Direct the Chemistry Coordinator to initiate the actions to obtain accident sampling and analysis per 16DP-0EP18, Accident Sampling.
an alternate source of Spray Pond inventory is required	Direct the Emergency Maintenance Coordinator and Technical Engineering Manager to implement actions necessary to restore Spray Pond inventory.
the disposition of contaminated water in secondary systems is required	Implement 74DP-9ZZ14, Contaminated Water Management Program.

SECTION 2.0 - ONSITE EMERGENCY COORDINATOR

2.3 - Terminal Actions

Event
Downgrade

____ Address the following items prior to downgrading the event:

- ◆ Conditions requiring the current emergency classification level no longer exist.
- ◆ The anticipated plant response is such that there should be no degradation to any fission product barriers or increase in radiation releases.
- ◆ Present plant conditions are such that there is no possibility of an adverse impact on the health and safety of the public and plant personnel due to actions associated with event downgrade.
- ◆ Consultation with the Emergency Operations Director and government agencies has taken place.

____ Transmit the following message over the Unit Evacuation System:

"Attention all plant personnel. Attention all plant personnel. The emergency situation declared in Unit ____ has now been downgraded to a ____."

(Provide special instructions as necessary. Repeat the message once.)

SECTION 2.0 - ONSITE EMERGENCY COORDINATOR

2.3 - Terminal Actions *continued...*Event
Termination

-
- ___ Address the following items prior to terminating the event:
- ◆ The anticipated plant response is such that there should be no challenge to any fission product barriers or radiation releases in excess of Technical Specifications.
 - ◆ Present plant conditions offer no possibility of an adverse impact on the health and safety of the public and plant personnel.
 - ◆ Consultation with the Emergency Operations Director and government agencies has taken place.
- ___ If Assembly had been initiated, sound the "All Clear" Signal for approximately 30 seconds.
- ___ Transmit the following message over the Unit Evacuation System:
- "Attention all plant personnel. Attention all plant personnel. The emergency situation declared in Unit ___ has now been terminated."**
- (Provide special instructions as necessary. As appropriate, repeat sounding the "All Clear" Signal and the message once.)*
- ___ Request the Emergency Operations Director to direct the Government Liaison to notify offsite agencies of event termination.
- ___ Direct the USNRC Liaison Operations to inform the USNRC as soon as possible of emergency termination.
- ___ Notify the Unaffected Units' Shift Supervisors of emergency termination.
- ___ At termination of the emergency classification, notify the PVNGS Nuclear Regulatory Affairs Department or the respective Unit Duty Engineer and request a written summary be provided to state / county offsite authorities within 8 hours.
- (Provide copies of required materials, as requested by the Nuclear Regulatory Affairs Department, for preparation of the report.)*
-

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SECTION 2.0 - ONSITE EMERGENCY COORDINATOR		

2.3 - Terminal Actions *continued...*

Record Retention

Transfer copies of all associated paperwork to the Emergency Planning Department. Forward all original paperwork to the Unit Operations Department for sorting, collating, and transfer to Nuclear Information Records Management.

SECTION 3.0 - ADMINISTRATIVE SUPPORT

3.0 - Administrative Support Function**Duties and Responsibilities**

Administrative Support personnel render assistance to the Onsite Emergency Organization in all matters requiring clerical support. Duties related to this function include information dissemination, the use and/or transmission of facsimile materials, document duplication and retrieval, telecommunications assistance, log-keeping, site-wide announcements, etc.

Administrative Support personnel report to the Security Director in the Technical Support Center.

3.1 - Initial Actions**Facility Activation**

Consult with the Security Director to determine and initiate immediate support functions required to aid activation of the facility.

3.2 - Subsequent Actions**Status**

Render assistance and support for various duties as assigned.

3.3 - Terminal Actions**Record Retention**

Submit logs, data, and other documentation to the Security Director after event termination.

SECTION 4.0 - CHEMISTRY COORDINATOR

4.0 - Chemistry Coordinator Function

Duties and Responsibilities

The Chemistry Coordinator provides analysis and evaluation of coolant and air samples to aid in determination of reactor core conditions and release potentials. S/he provides chemical analyses and interprets results of the analyses for evaluation of plant systems and coordinates with the Reactor Analyst to schedule and support core damage assessment activities, including post-accident sampling.

The Chemistry Coordinator reports to the Technical Engineering Manager in the Technical Support Center. There is no Onshift Emergency Organization counterpart for the Chemistry Coordinator.

4.1 - Initial Actions

Facility Activation

When duties have been assumed and an informational briefing has been received, contact the Onshift Chemistry Technician and the Radiological Monitoring Technician for a briefing on current plant chemistry conditions and Radiation Monitoring System trends.

Consult with the Technical Engineering Manager and the Reactor Analyst and determine the needs for additional Chemistry Support personnel based on current plant chemistry.

NOTE

A 3-hour window is generally required for completion of a sample analysis from the time that a sample has been requested. When preparation time is available (*e.g., waiting for primary sample decay*), sample carts may be prepared and an initial flush of the Post-Accident Sample System may be performed.

If required, consult with the affected Unit Chemistry Technicians and direct that preparations be initiated for use of the Post-Accident Sample System.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 4.0 - CHEMISTRY COORDINATOR		

4.2 - Subsequent Actions

Status

-
- _____ Evaluate, determine, and interpret analyses results of coolant / air samples and provide the results to the Reactor Analyst and technical staff in the Technical Support Center and Emergency Operations Facility.
 - _____ Keep the Radiological Protection Coordinator aware of current and forecasted sampling / counting activities. *(Assign priorities as necessary.)*
 - _____ If applicable, evaluate the potential for a hydrogen bubble in the steam generator during a tube rupture event.
-

4.3 - Terminal Actions

Record Retention

-
- _____ Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.
-

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 5.0 - ELECTRICAL ENGINEERING		

5.0 - Electrical Engineering Function

Duties and Responsibilities

The Electrical Engineer provides electrical engineering analyses as required by the specific event(s) in progress.

The Electrical Engineer reports to the Technical Engineering Manager in the Technical Support Center. There is no Onshift Emergency Organization counterpart for the Electrical Engineer.

5.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, contact the Satellite Technical Support Center Shift Technical Advisor(s) and relieve responsibilities for electrical engineering support.

— Consult with the Technical Engineering Manager to determine and initiate immediate support functions required to aid engineering analyses.

5.2 - Subsequent Actions

Status

— Support recommendations for actions associated with probabilistic risk assessment and electrical engineering and determine corporate engineering staff requirements to support the recommendations.

5.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 6.0 - EMERGENCY COORDINATOR TECHNICAL ASSISTANT		

6.0 - Emergency Coordinator Technical Assistant Function

Duties and Responsibilities

The Emergency Coordinator Technical Assistant provides the Emergency Coordinator the bases for actions taken by Control Room personnel as specified in the emergency operating procedures and maintains the Emergency Coordinator advised of the operational impact of events in progress.

The Emergency Coordinator Technical Assistant reports to the Emergency Coordinator in the Technical Support Center. There is no Onshift Emergency Organization counterpart for the Emergency Coordinator Technical Assistant.

6.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, consult with the Operations Coordinator and determine the status of event(s) in progress and which procedures are currently in use by Control Room personnel.

— Obtain required documents from the facility Technical Reference Library and ascertain the bases for current and impending actions based on procedures currently in use by Control Room personnel.

6.2 - Subsequent Actions

Status

— Keep the Emergency Coordinator advised of current / impending operator actions based on procedural direction and the grounds for those actions.

— Maintain the Emergency Coordinator aware of operational impacts and projected consequences of events in progress.

6.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Emergency Coordinator after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 7.0 - EMERGENCY MAINTENANCE COORDINATOR		

7.0 - Emergency Maintenance Coordinator Function

Duties and Responsibilities

The Emergency Maintenance Coordinator is responsible for plant emergency repair. Duties include evaluation of hazards and coordination of repair / damage control. S/he provides overall direction and control of Emergency Repair Team response activities and is responsible for maintaining communications with the Operations Support Center Coordinator regarding repair team efforts.

The Emergency Maintenance Coordinator reports to the Emergency Coordinator in the Technical Support Center. There is no Onshift Emergency Organization counterpart for the Emergency Maintenance Coordinator.

7.1 - Initial Actions

Facility Activation

- When duties have been assumed and an informational briefing has been received, establish contact with the Operations Support Center Coordinator via the Maintenance Control Line.
- If emergency team dispatch is necessary, direct the Operations Support Center Coordinator to form the required team(s) and to designate communications requirements for the team leader. As necessary, determine the need for additional support personnel.
- Obtain required documents from the facility Technical Reference Library, if necessary.

7.2 - Subsequent Actions

Status

- Provide periodic update briefings to the Operations Support Center Coordinator regarding event status and availability of support personnel.
- Advise the Fire Team Leader and Emergency Coordinator of any potential for toxic, chemical, fire, or medical hazards, if required.
- Investigate / resolve annunciator alarms on TSC Panel AJ-SDN-UA-001.

SECTION 7.0 - EMERGENCY MAINTENANCE COORDINATOR

7.2 - Subsequent Actions *continued...*

Repair

— Maintain periodic communications with the following personnel:

- ♦ Emergency Coordinator
- ♦ Radiological Protection Coordinator
- ♦ Operations Support Center Coordinator (*Maintenance Control Line*)
- ♦ Repairs Coordinator (*Maintenance Control Line*)

Perform the following actions as required:

IF...	THEN...
problems with available plant equipment are noted	Assess operation of the following equipment: <ul style="list-style-type: none">♦ mechanical♦ electrical♦ instrumentation / controls
the Emergency Coordinator requires a plant status update	Review the following items with the Emergency Coordinator: <ul style="list-style-type: none">♦ deployment of Emergency Repair Teams♦ all repair operations in progress♦ those repairs which are crucial♦ estimated times for repairs♦ status of water supply inventories♦ status of support personnel♦ status of tools and spare parts♦ known radiological conditions
contamination is hampering repair efforts	Consult with the Emergency Coordinator to identify and decontaminate those areas requiring decontamination.

7.3 - Terminal Actions

Record
Retention

— Submit logs, data, and other documentation to the Emergency Coordinator after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 8.0 - MECHANICAL ENGINEERING		

8.0 - Mechanical Engineering Function

Duties and Responsibilities

The Mechanical Engineer provides mechanical engineering analyses as required by the specific event(s) in progress.

The Mechanical Engineer reports to the Technical Engineering Manager in the Technical Support Center. There is no Onshift Emergency Organization counterpart for the Mechanical Engineer.

8.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, contact the Satellite Technical Support Center Shift Technical Advisor(s) and relieve responsibilities for mechanical engineering support.

— Consult with the Technical Engineering Manager to determine and initiate immediate support functions required to aid engineering analyses.

8.2 - Subsequent Actions

Status

— Support recommendations for actions associated with probabilistic risk assessment and mechanical engineering and determine corporate engineering staff requirements to support the recommendations.

8.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 9.0 - OPERATIONS COORDINATOR		

9.0 - Operations Coordinator Function

Duties and Responsibilities

The Operations Coordinator consults with the Operations Advisor in the Satellite Technical Support Center regarding technical and operational issues and maintains the flow of information between the Technical Support Center and the Satellite Technical Support Center / Control Room. S/he also assists the Radiological Protection Coordinator with necessary dose control measures.

The Operations Coordinator reports to the Emergency Coordinator in the Technical Support Center.

9.1 - Initial Actions

Facility Activation

- When duties have been assumed and an informational briefing has been received, brief the USNRC Liaison Operations in the Technical Support Center.
- Establish communications with the Operations Advisor in the Satellite Technical Support Center / Control Room.
- Synchronize all clocks in the facility with that of the Affected Unit.

9.2 - Subsequent Actions

Status

- Consult with the Operations Advisor in the Satellite Technical Support Center and evaluate information regarding technical and operational issues concerning the events in progress.
- Keep the Emergency Coordinator Technical Assistant advised of the event(s) in progress, which procedures are currently in use by Control Room personnel, and Control Room actions in progress.
- Establish provisions for Auxiliary Operator job assignment / tracking requirements to assist the Radiological Protection Coordinator with necessary dose control measures.
- Maintain the Emergency Coordinator aware of current activities.

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SECTION 9.0 - OPERATIONS COORDINATOR		

9.3 - Terminal Actions

Record Retention

-
- Collect all documentation and associated logs from the USNRC Liaison Operations at event termination.
 - Submit logs, data, and other documentation to the Emergency Coordinator after event termination.
-

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 10.0 - PLANT STATUS TECHNICIAN		

10.0 - Plant Status Technician Function

Duties and Responsibilities

The Plant Status Technician maintains communications monitoring capability with the Unaffected Shift Technical Advisor in the Satellite Technical Support Center / Control Room and the Plant Status Technician in the Emergency Operations Facility when ERFDADS is unavailable. S/he is responsible for maintaining a concise knowledge level regarding technical and operational status of plant parameters and equipment functionality. Duties include the maintenance of accurate, current data on the facility plant status boards.

If staffed, the Plant Status Technician reports to the Technical Engineering Manager in the Technical Support Center.

10.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, establish communications monitoring capability with the Unaffected Shift Technical Advisor in the Satellite Technical Support Center / Control Room and the Plant Status Technician in the Emergency Operations Facility.

— Record an initial set of current plant data on the facility plant status boards using the approved color code scheme.

10.2 - Subsequent Actions

Status

— Maintaining open communications capability previously established, record accurate, current plant data on the facility plant status boards on a continuing basis using the approved color code scheme.

10.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 11.0 - PROBABILISTIC RISK ASSESSMENT		

11.0 - Probabilistic Risk Assessment Function

Duties and Responsibilities

Probabilistic Risk Assessment personnel provide contingency planning results based on current and/or proposed occurrences to determine potential short-term actions required for mitigation of events in progress.

Probabilistic Risk Assessment personnel report to the Technical Engineering Manager in the Technical Support Center.

11.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, collect all known facts and parameter trends concerning the events in progress.

11.2 - Subsequent Actions

Contingency

— As necessary, identify contingency plans for the following areas:

- ♦ time remaining to uncover or melt the reactor core
- ♦ time remaining to reach the "point of no return" for operator recovery
- ♦ estimated Containment peak pressure

Status

— If appropriate, determine optimum equipment recovery actions required which are compensatory and prudent.

11.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 12.0 - RADIATION PROTECTION SUPPORT TECHNICIAN		

12.0 - Radiation Protection Support Technician Function

Duties and Responsibilities

The Radiation Protection Support Technician performs facility habitability surveys for the Technical Support Center and maintains radio and/or telephone communications with Protected Area Survey Teams. S/he also assists the Radiological Protection Coordinator with miscellaneous administrative functions.

The Radiation Protection Support Technician reports to the Radiological Protection Coordinator in the Technical Support Center.

12.1 - Initial Actions

Facility Activation

- When duties have been assumed and an informational briefing has been received, determine the current deployment of Protected Area Monitoring Teams and their status.
- Ensure that the facility radio communications equipment is operable and functioning properly.
- Remove the Area Radiation Monitor from the emergency locker and place it into operation in the Technical Support Center.
- Place the Technical Support Center Radiation Monitoring System monitor RU-13A into operation in accordance with the posted monitor instructions.

SECTION 12.0 - RADIATION PROTECTION SUPPORT TECHNICIAN

12.2 - Subsequent Actions

Status

Perform the following actions as required:

IF...	THEN...
Protected Area survey teams are currently deployed	Establish and maintain radio and/or telephone communications capabilities with the teams.
contamination control for the Technical Support Center is warranted	Establish a contamination control point for the facility as required.
habitability surveys are warranted	Perform the following actions: <ul style="list-style-type: none">♦ Periodically ensure no upscale trends exist on RU-13A for gaseous, particulate, and iodine activity.♦ Perform facility air sampling in accordance with 75RP-9RP21, Airborne Evaluation (10 cubic feet air samples may be taken for ALARA considerations).♦ (Form EP-0481, Air Sample Data, may be used for calculations.)
TSC RMS Monitor RU-13A alarms	Investigate / resolve annunciator alarms.
administrative functions need to be addressed	Assist the Radiological Protection Coordinator with administrative functions.

12.3 - Terminal Actions

Radiation Monitoring

— Shut down the Technical Support Center Radiation Monitoring System monitor RU-13A in accordance with the posted monitor instructions.

Record Retention

— Submit logs, data, and other documentation to the Radiological Protection Coordinator after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 13.0 - RADIOLOGICAL PROTECTION COORDINATOR		

13.0 - Radiological Protection Coordinator Function

Duties and Responsibilities

The Radiological Protection Coordinator provides direction and control of Protected Area monitoring teams and has an overall responsibility for radiological controls in the Protected Area. S/he provides technical advice to the Emergency Coordinator regarding Protective Action Recommendations and ensures that habitability surveys and contamination control measures are taken in the Protected Area. Duties of the Radiological Protection Coordinator include authorizing personnel radiation exposures in excess of PVNGS Administrative Exposure Hold Points and advising the Emergency Coordinator on the use of Potassium Iodide and on the authorization of radiation exposures in excess of 10 CFR 20 limits. The Radiological Protection Coordinator maintains an open line of communications with Radiation Protection personnel in the Operations Support Center, the Control Room, and the Emergency Operations Facility.

The Radiological Protection Coordinator reports to the Emergency Coordinator in the Technical Support Center. S/he relieves the Radiation Protection Monitor in the Satellite Technical Support Center of duties and responsibilities upon Technical Support Center activation.

13.1 - Initial Actions

Facility Activation

- When duties have been assumed and an informational briefing has been received, ensure that the Radiation Protection Support Technician is fully briefed.
- Relieve the Radiation Protection Monitor in the Satellite Technical Support Center of responsibilities for Protected Area radiological controls.

SECTION 13.0 - RADIOLOGICAL PROTECTION COORDINATOR

13.2 - Subsequent Actions

Status

Perform the following actions as required:

IF...	THEN...
Protected Area radiological conditions could impact personnel	Ensure the following items are addressed: <ul style="list-style-type: none"> ♦ support personnel are briefed ♦ Security is informed of current conditions ♦ Operations Support Center habitability is maintained ♦ survey / repair teams are briefed ♦ team stay times have been calculated ♦ Auxiliary Operators are briefed, issued dosimetry, and tracked with the assistance of the Operations Coordinator
knowledge of personnel locations in the Protected Area is required	Determine the following: <ul style="list-style-type: none"> ♦ personnel traffic routes / areas ♦ entry and exit routes ♦ personnel protection requirements
an impact to Technical Support Center habitability exists	Advise the Emergency Coordinator of the need to relocate facility functions to the Emergency Operations Facility.
Assembly has been directed by the Emergency Coordinator	Evaluate Protected Area Assembly Areas for potential radiological impact.
Emergency Exposure Guidelines must be authorized and/or Potassium Iodide administration is indicated	Evaluate and determine the need for KI and/or Emergency Exposure Guideline authorization (16IG-0EP051, <i>Emergency Exposures and KI</i> , may be referenced for further guidance).
Site Evacuation is indicated	Determine the need for site evacuation (16IG-0EP191, <i>Site Evacuation</i> , may be used for further guidance).
additional personnel and/or materials are required	Contact Radiation Protection in the Unaffected Units for additional personnel and/or materials.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 13.0 - RADIOLOGICAL PROTECTION COORDINATOR		

13.3 - Terminal Actions

Radiation Instrumentation

— Ensure that dose rate meters from the emergency kit are transmitted to the calibration facility for calibration and required maintenance.

Recovery

— If implementation of a recovery effort is appropriate, consult with the Emergency Operations Director regarding Radiation Protection support.

Record Retention

— Collect all documentation and associated logs from the Radiation Protection Support Technician at event termination.

— Submit logs, data, and other documentation to the Emergency Coordinator after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 14.0 - REACTOR ANALYST		

14.0 - Reactor Analyst Function

Duties and Responsibilities

The Reactor Analyst performs detailed analyses of core physics and heat transfer parameters. Additional duties include assessment of reactor core status and evaluation of the integrity of the fuel cladding.

The Reactor Analyst reports to the Technical Engineering Manager in the Technical Support Center and assumes duties from the Shift Technical Advisor in the Satellite Technical Support Center upon Technical Support Center activation.

14.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, contact the Unaffected Unit Shift Technical Advisor in the Satellite Technical Support Center for a briefing on the current status of core thermal hydraulics parameters.

— Access ERFDADS and assess the status of current core parameters (*16IG-0EP031, Core Damage Assessment, may be used as guidance*).

— Request PASS samples from the Chemistry Coordinator, as required.

14.2 - Subsequent Actions

Status

— Assess, evaluate, and conduct analyses of the integrity of plant systems.

— As necessary, assist the Technical Engineering Manager with operational recommendations using additional technical support personnel.

14.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 15.0 - SAFETY ANALYSIS ENGINEER		

15.0 - Safety Analysis Engineer Function

Duties and Responsibilities

The Safety Analysis Engineer performs calculations to reduce or minimize offsite releases and uses the USNRC Response Technical Manual for comparisons.

The Safety Analysis Engineer reports to the Technical Engineering Manager in the Technical Support Center.

15.1 - Initial Actions

Facility Activation

When duties have been assumed and an informational briefing has been received, retrieve a current copy of the USNRC Response Technical Manual.

15.2 - Subsequent Actions

Status

As directed, and in coordination with the Radiological Assessment Coordinator and Dose Assessment Health Physicist in the Emergency Operations Facility, determine core reactivity assessments and projected Site Boundary and 10-mile radiation doses, considering the following effects on core cooling:

- ♦ time remaining to uncover or melt the reactor core
- ♦ estimated Core Damage Fraction

As necessary, consult with the USNRC Liaison Health Physics in the Emergency Operations Facility and determine comparisons using USNRC Response Technical Manual calculations.

Provide recommendations to the Technical Engineering Manager regarding methods to minimize or eliminate offsite radiological releases.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 15.0 - SAFETY ANALYSIS ENGINEER		

15.3 - Terminal Actions

Record
Retention

Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 16.0 - SECURITY DIRECTOR		

16.0 - Security Director Function

Duties and Responsibilities

The Security Director provides direction and control of the Onsite Security Force for areas of personnel accountability, access control, site security, evacuation, medical transportation, and personnel / equipment security control. S/he is responsible for notification to the Emergency Response Organization of the emergency event as directed by the Emergency Coordinator.

The Security Director reports to the Emergency Coordinator and resides in the Technical Support Center. S/he may assume duties from the Onshift Security Director upon Technical Support Center activation or may retain Security Director status if previously assumed.

16.1 - Initial Actions

Autodialer Emergency Notification

- If necessary, assign a Security Shift Sergeant to report to Security Headquarters and fulfill the Security Team Leader duties and responsibilities.
- If not previously performed, verify proper operation of the Technical Support Center emergency ventilation within 30 minutes of emergency declaration (*16IG-0EP055, Emergency Ventilation, may be used as guidance*).
- For off-normal shift hours only, activate the Autodialer (*16IG-0EP013, Autodialer Activation, may be used as guidance*).
- When emergency notifications have been completed, inform the Emergency Coordinator of any unaffirmed Emergency Response Organization positions.

16.2 - Subsequent Actions

Facility Activation

- When duties have been assumed and an informational briefing has been received, determine the need for and contact any additional Security personnel as required.
- As necessary, specify job duties for Administrative Support personnel.

SECTION 16.0 - SECURITY DIRECTOR

16.2 - Subsequent Actions *continued...*

Status

Perform the following actions as required:

FOR...	THEN...
facility security	<ul style="list-style-type: none">◆ Maintain Technical Support Center security.◆ Ensure facility personnel badging requirements are maintained.◆ Ensure that 10 CFR 26.20(e) FFD requirements have been maintained. <i>(Form EP-0013 may be used for guidance.)</i>
Assembly	<ul style="list-style-type: none">◆ Conduct area searches in all Units <i>(16IG-0EP012, Assembly, may be referenced for further guidance).</i>◆ Lock down the Protected Area.◆ Notify the Water Reclamation Facility Control Room of the Assembly directive to ensure WRF personnel are notified to assemble.◆ Support the Emergency Coordinator with post-Assembly activities.
Accountability	<ul style="list-style-type: none">◆ Ensure that the Emergency Coordinator receives a detailed Accountability report within 30 minutes following the request.◆ Coordinate with Fire Protection to locate and assist unaccounted individuals identified on the detailed Accountability Report.
vehicle control	<ul style="list-style-type: none">◆ Coordinate with Radiation Protection to establish air and surface routes for arriving or departing traffic under radiological conditions.◆ Obtain arriving vehicle / personnel information and transmit to Security personnel.◆ Dispatch Security personnel to inspect and escort arriving vehicles and personnel.

continues...

SECTION 16.0 - SECURITY DIRECTOR

16.2 - Subsequent Actions *continued...*

Status
(continued)

Perform the following actions as required:

FOR...	THEN...
Security deployment	<ul style="list-style-type: none">♦ Coordinate with the Radiological Protection Coordinator for areas to avoid under radiological conditions.
offsite assistance	<ul style="list-style-type: none">♦ As directed, restrict access to PVNGS using Local Law Enforcement Agency assistance.♦ Request offsite emergency assistance as directed and advise the Emergency Coordinator on status.♦ Authorize Protected Area access.♦ Control access to vital areas when the Security Computer is unavailable or as requested.♦ Refer all media inquiries to the Joint Emergency News Center.
suspension of Safeguards	Ensure Senior Reactor Operator approval is obtained prior to deferment of any required safeguards or security actions. <i>(Examples include search and identification of personnel, search of packages and vehicles, and use of ACADs within the Protected Area.)</i>
site evacuation	<ul style="list-style-type: none">♦ Direct the Security Coordinator to initiate the actions for evacuation organization and security measures (16IG-0EP191, Site Evacuation, may be used as guidance).♦ When the site has been evacuated, direct Security to conduct searches of all buildings and areas outside the Protected Area for non-essential personnel.

SECTION 16.0 - SECURITY DIRECTOR

16.3 - Terminal Actions**Record
Retention**

-
- Collect all documentation and associated logs from Administrative Support personnel.
 - Submit logs, data, and other documentation to the Emergency Coordinator after event termination.
-

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 17.0 - SHIFT TECHNICAL ADVISOR		

17.0 - Shift Technical Advisor Function

Duties and Responsibilities

The Shift Technical Advisor monitors plant system data from the facility via ERFDADS and provides electrical and mechanical technical support.

The Shift Technical Advisor reports to the Technical Engineering Manager in the Technical Support Center. An additional Shift Technical Advisor, if stationed, assists the Emergency Coordinator with monitoring of ERFDADS.

17.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, access ERFDADS and assess the status of plant systems and critical plant parameters.

— Contact technical support personnel as directed.

17.2 - Subsequent Actions

Status

— Maintain a continual assessment of plant systems and critical plant parameters.

— Advise the Plant Status Technician of any significant changes to plant status and the Technical Engineering Manager of proposed recommendations and any significant changes to plant status.

17.3 - Terminal Actions

Record Retention

— Submit logs, data, and other documentation to the Technical Engineering Manager after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 18.0 - TECHNICAL ENGINEERING MANAGER		

18.0 - Technical Engineering Manager Function

Duties and Responsibilities

The Technical Engineering Manager directs engineering and systems analyses and is responsible to provide procedure development and related efforts as required by emergency conditions. S/he maintains liaison with the Nuclear Steam Supply System vendor(s) and Architect-Engineer in regards to technical status and proposed recommendations. The Technical Engineering Manager maintains communications with the Technical Analysis Manager located in the Emergency Operations Facility and other technical support groups as required.

The Technical Engineering Manager reports to the Emergency Coordinator in the Technical Support Center.

18.1 - Initial Actions

Facility Activation

— When duties have been assumed and an informational briefing has been received, provide a status briefing to the following personnel:

- ◆ Chemistry Coordinator
- ◆ Electrical Engineer
- ◆ Mechanical Engineer
- ◆ Plant Status Technician
- ◆ Probabilistic Risk Assessment
- ◆ Reactor Analyst
- ◆ Shift Technical Advisor

— Organize a list of known equipment out-of-service and maintain current.

— Determine the need for and contact any additional engineering and technical support personnel as required.

SECTION 18.0 - TECHNICAL ENGINEERING MANAGER

18.2 - Subsequent Actions

Status

-
- ___ As necessary, advise the Engineering staff of plant status and resources.
 - ___ Consult with the Emergency Coordinator regarding current plant status and recommendations for additional resources required for plant stabilization and recovery.
 - ___ If required, contact Nuclear Steam Supply System vendor(s), the Architect Engineer, and other vendors regarding technical status or proposed recommendations.
-

Contingency

-
- ___ Develop a prioritized corrective action plan with the Emergency Maintenance Coordinator regarding the evaluation and restoration of plant systems and available Spray Pond water inventory, including the need for well drilling (*ultimate heat sink inventory*), if required.
 - ___ Consult with the Technical Analysis Manager in the Emergency Operations Facility regarding time remaining to uncover the core, if appropriate, and provide the information to the Emergency Coordinator.
 - ___ Assist the Emergency Coordinator, as required, in areas regarding emergency classification, the assessment, analyses, and evaluation of plant systems integrity, and the need for offsite technical support.
 - ___ Maintain the USNRC representative advised of current contingencies.
-

SECTION 18.0 - TECHNICAL ENGINEERING MANAGER

18.3 - Terminal Actions**Record
Retention**

— Collect all documentation and associated logs from the following support personnel:

- ♦ Chemistry Coordinator
- ♦ Electrical Engineer
- ♦ Mechanical Engineer
- ♦ Plant Status Technician
- ♦ Probabilistic Risk Assessment
- ♦ Reactor Analyst
- ♦ Shift Technical Advisor

— Submit logs, data, and other documentation to the Emergency Coordinator after event termination.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 19.0 - USNRC LIAISON OPERATIONS		

19.0 - USNRC Liaison Operations Function

Duties and Responsibilities

Upon Technical Support Center activation, the USNRC Liaison Operations assumes responsibility from the Shift Technical Advisor in the Satellite Technical Support Center for continuous communications with the USNRC regarding operational events and reactor plant status. S/he may be relieved of duties by a representative of the USNRC Emergency Response Team upon their arrival.

The USNRC Liaison Operations reports to the Operations Coordinator in the Technical Support Center.

19.1 - Initial Actions

Facility Activation

- When duties have been assumed and an informational briefing has been received, contact the STA / RO / SRO in the Control Room for a briefing on the current USNRC communications status.
- Using the FTS-2000 (ENS) telephone, assume continuous communications with the USNRC.

19.2 - Subsequent Actions

Status

- Maintain continuous communications with the USNRC until relieved by a representative of the USNRC Emergency Response Team.
- If the emergency classification changes, notify the USNRC within 60 minutes of the change or immediately following offsite agency notification upon event termination and provide details regarding the emergency classification change or termination.
- If facsimile transmissions (FAX) of information to the USNRC become necessary, receive prior Emergency Coordinator concurrence.

TECHNICAL SUPPORT CENTER ACTIONS	16DP-0EP15	Revision: 4
SECTION 19.0 - USNRC LIAISON OPERATIONS		

19.3 - Terminal Actions

Record
Retention

— Submit logs, data, and other documentation to the Operations Coordinator after event termination.

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