

Document Transmittal Form

To: NRC - WASHINGTON
DOCUMENT CONTROL DESK
WASHINGTON, DC 20555

ID: HECG0065

Date: 20000629

Please update your controlled set of documents with the following list of documents:

Document ID	Revision	Status	Quantity	Format	RecNo
PRC HECG-ATT.08 000	3	A	1	H	72059
PRC HECG-HECG-TOC 000	20	A	1	H	72104
PRC HECG-SECT.I 000	1	A	1	H	72014

This acknowledgement receipt must be returned within 5 working days to:

Document Management:
PSEG Nuclear
BOX 236
Hancocks's Bridge, NJ 08038

MC N04

Your signature below verifies that:

(1) the above documents have been filed and superseded documents have been removed and destroyed or clearly marked as obsolete.

(2) the mailing address and copy holder information are correct or corrections have been identified on this transmittal.

Place checkmark here to remove from controlled distribution

Signature: _____

Date: _____

A045

HOPE CREEK GENERATING STATION
EVENT CLASSIFICATION GUIDE
June 29, 2000

PSE&G
CONTROL
COPY #

HECG0065

CHANGE PAGES FOR
REVISION #20

The Table of Contents forms a general guide to the current revision of each section and attachment of the Hope Creek ECG. The changes that are made in this TOC Revision #20 are shown below.

1. Check that your revision packet is complete.
2. Add the revised documents.
3. Remove and recycle the outdated material listed below.

ADD			REMOVE		
<u>Pages</u>	<u>Description</u>	<u>Rev.</u>	<u>Pages</u>	<u>Description</u>	<u>Rev.</u>
ALL	TOC	20	ALL	TOC	19
ALL	Introduction & Usage	01	ALL	Introduction & Usage	00
ALL	Attachment 8	03	ALL	Attachment 8	02

REVISION SUMMARY:

Introduction & Usage - Operations expectation memo addition

- 15minute assessment time clarification
- After the Fact and Short duration clarification
- STA verification clarification
- OS out of Control Room clarification

Attachment 8 telephone number changes

PSE&G
CONTROL
COPY #

ECG
T.O.C.
Pg. 1 of 4

HOPE CREEK EVENT CLASSIFICATION GUIDE
TABLE OF CONTENTS/SIGNATURE PAGE

HECG-0065

<u>SECTION</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
T.O.C.	Table of Contents/Signature Page	20	4	06/29/00
i	Introduction and Usage	01	10	06/29/00
ii	Glossary of Acronyms & Abbreviations	00	5	01/21/97
1.0	Fuel Clad Challenge	00	1	01/21/97
2.0	RCS Challenge	00	1	01/21/97
3.0	Fission Product Barriers (Table)	00	1	01/21/97
4.0	EC Discretion	00	1	01/21/97
5.0	Failure to SCRAM	00	1	01/21/97
6.0	Radiological Releases/Occurrences			
6.1	Gaseous Effluent Release	00	4	01/21/97
6.2	Liquid Effluent Release	00	1	01/21/97
6.3	In - Plant Radiation Occurrences	00	1	01/21/97
6.4	Irradiated Fuel Event	00	2	01/21/97
7.0	Electrical Power			
7.1	Loss of AC Power Capabilities	00	2	01/21/97
7.2	Loss of DC Power Capabilities	00	1	01/21/97
8.0	System Malfunctions			
8.1	Loss of Heat Removal Capability	00	1	01/21/97
8.2	Loss of Overhead Annunciators	00	1	01/21/97
8.3	Loss of Communications Capability	00	1	01/21/97
8.4	Control Room Evacuation	01	1	03/13/97
8.5	Technical Specifications	00	1	01/21/97
9.0	Hazards - Internal/External			
9.1	Security Threats	00	1	01/21/97
9.2	Fire	00	1	01/21/97
9.3	Explosion	00	1	01/21/97
9.4	Toxic/Flammable Gases	00	2	01/21/97
9.5	Seismic Event	00	1	01/21/97
9.6	High Winds	00	1	01/21/97
9.7	Flooding	00	1	01/21/97
9.8	Turbine Failure/Vehicle Crash/ Missile Impact	00	1	01/21/97
9.9	River Level	00	1	01/21/97
10.0	Reserved for future use	N/A		
WC	Hope Creek ECG Charts (Located in ERFs)	00	2	01/21/97

**HOPE CREEK EVENT REPORTABLE ACTION LEVELS
TABLE OF CONTENTS/SIGNATURE PAGE**

Licensing is responsible for the Reportable Action Level (Section 11)
and associated Attachments (marked by "L")

<u>SECTION</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
11.0	Reportable Action Levels (RALs)			
11.1	Technical Specifications	01	2	08/28/97
11.2	Design Basis/ Unanalyzed Condition	00	2	01/21/97
11.3	Engineered Safety Features (ESF)	01	1	08/28/97
11.4	Personnel Safety/Overexposure	00	2	01/21/97
11.5	Environmental	00	1	01/21/97
11.6	After-the-Fact	00	1	01/21/97
11.7	Security/Emergency Response Capabilities	02	1	12/15/99
11.8	Public Interest	00	1	01/21/97
11.9	Accidental Criticality/ Special Nuclear Material / Rad Material Shipments - Releases	01	2	02/18/00
11.10	Voluntary Notifications	00	1	01/21/97

**HOPE CREEK EVENT CLASSIFICATION GUIDE
TABLE OF CONTENTS/SIGNATURE PAGE**

Licensing is responsible for the Reportable Action Level (Section 11)
and associated Attachments (marked by "L")

<u>ATTACHMENT</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
1	UNUSUAL EVENT	03	2	02/29/00
2	ALERT	03	2	02/29/00
3	SITE AREA EMERGENCY	03	2	02/29/00
4	GENERAL EMERGENCY	03	5	02/29/00
5	L NRC Data Sheet Completion Reference	00	7	01/21/97
6	Primary Communicator Log	13	8	03/29/00
7	Primary Communicator Log (GE)	deleted		02/29/00
8	Secondary Communicator Log	03	9	06/29/00
9	L Non-Emergency Notifications Reference	11	3	12/29/99
10	L 1 Hr Report - NRC Regional Office	00	3	01/21/97
11	L 1 Hr Report (Common Site) Security/Safeguards	00	3	01/21/97
12	L 1 Hr Report - NRC Operations	00	3	01/21/97
13	L 4 Hr Report - Contaminated Events Outside Of The RCA	00	7	01/21/97
14	L 4 Hr Report - NRC Operations	01	3	05/01/98
15	L Environmental Protection Plan	01	3	03/13/97
16	L Spill / Discharge Reporting	01	7	03/29/00
17	L 4 Hr Report - Fatality or Medical Emergency	00	4	01/21/97
18	L 4 Hr Report - Radiological Transportation Accident	01	4	05/12/97
19	L 24 Hr Report - Fitness For Duty (FFD) Program Events	01	3	05/12/97
20	L 24 Hour Report - NRC Regional Office	00	3	01/21/97
21	L Reportable Event - LAC/Memorandum Of Understanding (M.O.U.)	00	2	01/21/97
22	L T/S Required Engineering Evaluation	00	2	01/21/97
23	Reserved			
24	UNUSUAL EVENT (Common Site)	04	3	02/29/00
25	L 1 Hr Report (Common Site) - Major Loss Of Emergency Assessment, Offsite Response, <u>OR</u> Communications Capability	01	3	07/22/99

SIGNATURE PAGE

Prepared By: Francis J. Hughes, Rev 18 06/22/00
(If Editorial Revisions Only, Last Approved Revision) Date

Section/Attachments Revised: N/A _____
(List Non-Editorial Only - Section/Attachments) Date

Reviewed By: N/A _____
Station Qualified Reviewer Date

Reviewed By: N/A _____
Department Manager Date

Reviewed By: N/A _____
Manager – Licensing Date
(Reportable Action Level (Section 11) and associated Attachments marked by “L”)

Reviewed By:  6/26/00
Manager – EP & IT Date

Reviewed By: N/A _____
Manager - Quality Assessment - NBU Date
(If Applicable)

SORC Review and Station Approvals

N/A
Mtg. No. Hope Creek Chairman

N/A
Vice President Nuclear Operations

Date

Date

Effective Date of this Revision: 6/29/00 05/15/00 *CB*
Date

HOPE CREEK
EVENT CLASSIFICATION GUIDE
INTRODUCTION & USAGE
Section i

I. PURPOSE OF THE EVENT CLASSIFICATION GUIDE (ECG)

- A. To provide a central reference document that enables the Operations Superintendent (OS) or the Emergency Coordinator (EC) to classify emergency or non-emergency events and conditions.
- B. To provide the required procedures for immediate and prompt notifications and direction to other required written reports.
- C. To direct the Emergency Coordinator to implement procedures that will ensure appropriate response as required by the classified emergency level.

II. EMERGENCY CLASSIFICATION DESCRIPTIONS

A. Emergency Classes:

- 1. The NRC and Federal Emergency Management Agency (FEMA) established four emergency classes for fixed nuclear facilities.
- 2. An emergency class is used for grouping off-normal nuclear power plant conditions according to their relative radiological seriousness and the time sensitive onsite and offsite actions needed to respond to such conditions.
- 3. The four emergency classes are (in order):

Unusual Event (UE)	Least Severe
Alert (A)	↓
Site Area Emergency (SAE)	↓
General Emergency (GE)	Most Severe

B. Unusual Event:

- 1. Plant events, which are in progress or have occurred which indicate a potential degradation of the plant safety level.
- 2. The lowest level of emergency at the plant, which can usually be handled by the normal operating shift.

3. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs. Dose consequences in Unrestricted Areas would not reach 20 mRem TEDE.

C. Alert:

1. Plant events, which are in progress or have occurred that are more serious than an Unusual Event that involve an actual or potential substantial degradation of the plant safety level.
2. Emergency Response personnel are required in addition to the normal operating shift. The entire emergency response organization is called in. The TSC is activated, and the EOF and ENC are manned and may activate if needed for support.
3. Any release of radioactive material is expected to be limited to a small fraction of the EPA Protective Action Guideline exposure levels. Dose consequences in Unrestricted Areas would not reach 100 mRem TEDE.

D. Site Area Emergency:

1. Serious plant events are in progress or have occurred which involve actual or likely major failure of plant functions required for protection of the public.
2. The entire emergency response organization is activated.
3. Any release of radioactive material is not expected to exceed EPA Protective Action Guideline exposure levels beyond the plant boundary. Dose consequences in Unrestricted Areas not to exceed 1000 mRem TEDE.

E. General Emergency:

1. Serious plant events are in progress or have occurred which involve actual or imminent core degradation or core melting with potential for loss of containment integrity.
2. The entire emergency response organization is activated.
3. Release of radioactive material can be expected to exceed EPA Protective Action Guideline exposure levels of 1000 mRem TEDE in Unrestricted Areas.

III. EVENT CLASSIFICATION GUIDE (ECG) STRUCTURE

A. Overall Layout: The ECG is divided into 4 segments, which are:

1. Front Matter: Information that includes the Table of Contents, Introduction & Usage, and a Glossary of Acronyms.
2. Classification Sections: Flow chart diagrams used to classify events/conditions as emergencies or non-emergencies.
3. Attachments: Implementing documents that provide direction for emergency and non-emergency classification, notification, reporting requirements, references and forms required to facilitate event communications.
4. ECG Chart: Wall chart (Located at Emergency facilities) used to classify events/conditions as emergencies.

B. Classification Sections Format

With the exception of ECG Section 3.0, the ECG section flowcharts are comprised of the following elements:

1. Initiating Condition (IC): A generic nuclear power plant condition or event where either the potential exists for a radiological emergency or non-emergency reportable event OR such an emergency or non-emergency reportable event has occurred.
2. OPCON: Refers to the Operational Condition at Hope Creek during which a particular IC/EAL is applicable. The Operational Condition that the plant was in when the event started, prior to any protection system or operator actions, should be utilized when classifying events.

(From HCGS Technical Specifications, Sect. 1, Definitions)

<u>OPCON TITLE</u>	<u>MODE SWITCH</u>	<u>RCS TEMP</u>
1. POWER OPERATION	Run	ANY
2. STARTUP	Startup/Hot Standby	ANY
3. HOT SHUTDOWN	Shutdown	> 200 °F
4. COLD SHUTDOWN	Shutdown	≤ 200 °F
5. REFUELING *	Shutdown Or Refuel	≤ 140 °F

* Fuel in the RPV with the head closure bolts less than fully tensioned or with the head removed.

3. Emergency Action Level (EAL) or Reportable Action level (RAL): A predetermined, site-specific, observable threshold used to define when the generic initiating condition has been met, placing the plant in a given emergency class or non-emergency report. An EAL/RAL can be an instrument reading, an equipment status indicator, a measurable parameter, a discrete observable event, analysis results, entry into specific EOPs, or another phenomenon that indicates the need for classification of an emergency or non-emergency.
4. Action Required: Identifies the specific emergency class or non-emergency report that is required and refers the user to a specific ECG Attachment for implementation direction for the emergency or non-emergency event declared.

C. ECG Attachments:

The ECG Attachments are written in various formats depending on their intended use. The attachments are used for implementing notifications, protective actions, directions to Emergency Plan Implementing Procedures (EPEPs), as well as providing essential phone listings and informational data for immediate reference.

D. ECG Chart: (Located at Emergency Facilities)

1. Emergency Action Level (EAL): A predetermined, site-specific, observable threshold used to define when the generic initiating condition has been met, placing the plant in a given emergency class. An EAL can be an instrument reading, an equipment status indicator, a measurable parameter, a discrete observable event, analysis results, entry into specific EOPs, or another phenomenon, which indicates the need for classification of an emergency.
2. OPCON: Refers to the Operational Condition at Hope Creek during which a particular EAL is applicable. The Operational Condition that the plant was in when the event started, prior to any protection system or operator actions, should be utilized when classifying events.

(From HCGS Technical Specifications, Sect. 1, Definitions)

<u>OPCON TITLE</u>	<u>MODE SWITCH</u>	<u>RCS TEMP</u>
1. POWER OPERATION	Run	ANY
2. STARTUP	Startup/Hot Standby	ANY
3. HOT SHUTDOWN	Shutdown	> 200 °F
4. COLD SHUTDOWN	Shutdown	≤ 200 °F
5. REFUELING *	Shutdown Or Refuel	≤ 140 °F

* Fuel in the RPV with the head closure bolts less than fully tensioned or with the head removed.

3. The specific emergency classification identifies the ECG Attachment for implementation. Specific EALs identify "Attachment 24, Unusual Event (Common Site)" for implementation.

IV. EVENT CLASSIFICATION GUIDE (ECG) USE

NOTE

It is expected the OS always serves at the EC during the initiating event even if the OS is out of the control room. The Control Room Supervisor (CRS) assumes operational command and control responsibility for the shift crew but not as the Emergency Coordinator. The CRS should ensure that the OS is immediately called back to the control room on any conditions that require ECG assessment. Only if the OS is not able (sick or hurt) may the CRS serve as the EC.

- A. EC Judgment: The EALs described in the ECG are not all inclusive and will not identify each and every condition, parameter or event which could lead to an event classification. The following guidance should be used by the EC:

IF an EAL has been exceeded, but satisfaction of the IC is in question,
THEN CLASSIFY the event IAW the EAL.

IF however, it is clear that the EAL has NOT been exceeded (and will not),
THEN DO NOT classify the event based solely on the IC.

IF an IC has been satisfied, but exceeding the specific EAL is in question,
THEN CLASSIFY the event IAW the IC.

In any case,

IF the plant conditions are equivalent to one of the four emergency classes as described in Section II above,
THEN CLASSIFY the event based on EC discretion IAW ECG Section 4.0.

Assessment Time: Assessment of an Emergency Condition should be completed in a timely manner, which is considered to be within 15 minutes of when events are known or should have been known. If an EAL specifies a duration time (e.g. loss of annunciators for >15 min.), then the assessment time runs concurrently with the EAL duration time and is the same length.

If an event is recognized or reported and the required duration time is known to have already been exceeded then the duration portion of the EAL should be considered as being satisfied and the assessment time for the remaining portions of the EAL should be within 15 minutes from the time of recognition.

- B. Implementing Actions: The ECG is not a stand-alone document. At times, the ECG will refer the user to other attachments or procedures for accomplishment of specific evolutions such as: Accountability, Recovery, development of PARs, etc.

The ECG should be considered an "Implementing Procedure" and used in accordance with the requirements of a "Category II" procedure as defined in NC.NA-AP.ZZ-0001 (Q). The ECG classification sections allow for judgment and decision making as to whether or not an EAL or RAL is exceeded.

- C. Classification: To use this ECG volume, follow this sequence:

NOTE

Comparison of redundant instrumentation, indications, and/or alarms should be used to confirm actual plant conditions.

1. ASSESS the event and/or plant conditions and DETERMINE which ECG section(s) is most appropriate.
2. REFER to Section EAL/RAL Flowchart diagram(s), review and identify the Initiating Conditions that are related to the event/condition that has occurred or is ongoing.

(ECG Section 3.0 has its own unique usage instruction as part of the Fission Product Barrier Table 3.0)

NOTE

The Emergency Coordinator should classify and declare an emergency before an Emergency Action Level (EAL) is exceeded if, in the EC's judgment, it is determined that the EAL will be exceeded within 2 hours.

3. REVIEW the associated EALs or RALs as compared to the event and SELECT the highest appropriate emergency or reportable action level. If identification of an EAL is questionable refer to paragraph IV.A above.

If there is any doubt with regard to assessment of a particular EAL or RAL, the ECG Technical Basis Document should be reviewed. Words contained in an EAL or RAL that are bold face are either threshold values associated with that action level or are words that are defined in the basis for that specific EAL/RAL.

4. The STA is responsible to perform an independent verification of the EAL classification. The STA verification does not alleviate the requirement of the OS to make a timely classification.
5. IDENTIFY and IMPLEMENT the referenced Attachment under Action Required.
6. CONTINUE assessment after classification and attachment initiation, by returning to the ECG Sections to review EALs that may result in escalation/de-escalation of the emergency level.

D. Emergency/Non-Emergency Short Duration Events and Conditions Discovered After-The-Fact Guidance

1. A 'Short Duration' emergency event is defined as an event that meets or exceeds one or more Emergency Action Level's (EALs) for less than 15 minutes (i.e. action is taken and the plant returned to condition where no EAL applies). For a 'Short Duration' event the Control Room Staff is aware of the event and does realize that an EAL had been exceeded.
2. Short Duration' events that occur will be assessed and emergency classification made, if appropriate, within about 15 minutes of control room indications or the receipt of the information, indicating that an EAL, has or had been exceeded. This classification is to be made even if no EAL's are currently being exceeded (i.e. actions have been taken to stabilize the Plant such that no EAL's currently applies).

NOTE

Plant emergency events that are in progress or that have occurred with ongoing adverse consequences/effects should not be considered "After-The-Fact" events and should therefore be classified and declared as an ongoing emergency event.

3. An 'After the Fact' event is defined as an event that exceeded an EAL threshold and was not recognized at the time of occurrence, but is identified greater than 1 hour after the condition has occurred (e.g., as a result of a routine log review, record review, post trip review, engineering evaluation) and the condition no longer exists. For an 'After the Fact' event the Control Room Staff, at the time of the occurrence, was either not aware of the event and / or did not realize that an EAL was exceeded.
4. EMERGENCY CONDITIONS - "After-The-Fact" events that occur will be assessed and evaluated to ensure that no EAL currently applies, then an emergency declaration is NOT required. A non-emergency, One-Hour Report should be initiated in accordance with ECG Section 11.6, After-The-Fact.
5. NON-EMERGENCY CONDITIONS - if After-The-Fact (regardless of whether the event is on-going at the time of discovery) it is discovered that an event or condition had occurred that should have resulted in the classification and implementation of a non-emergency report (1 hour, 4 hour, 24 hour), the applicable non-emergency report attachment in the ECG should be implemented.

E. NRC Communications During An Emergency Guidance

1. Complete and accurate communications with the NRC Operations Center during emergencies is required and expected. The purpose of notifying the NRC within one-hour of an emergency, is to provide event information when immediate NRC action may be required to protect the public health and safety OR when the NRC needs accurate and timely information to respond to heightened public concern. If the information we provide is not accurate or does not contain sufficient detail, then we hamper the NRC from doing their job.
2. The NRC Data Sheet, along with the Initial Contact Message Form, is the primary vehicle to ensure the NRC is kept informed. General Guidance on completing the event description portion of the NRC Data Sheet is provided in Attachment 5 of the ECG.

F. Voluntary/Courtesy Reporting of Non-Emergency Events Guidance

In accordance with NUREG 1022, Rev 1, voluntary reporting is encouraged. PSEG may make voluntary or courtesy NRC notification (RAL 11.10.2) concerning events or conditions that may be of interest to the NRC.

The NRC responds to any voluntary notification of an event or conditions as its safety significance warrants, regardless of how PSEG classifies the event.

IF it is determined at some later time that the event was reportable under a specific part of 10CFR50.72 as defined in the ECG,
THEN PSEG should update the NRC with this information.

G. Event Retraction Guidance

IF an ENS notification to the NRC was made as directed by the applicable ECG Attachment AND
it is later determined that the event or condition is not reportable,
THEN the notification may be retracted as follows:

1. OBTAIN both the Manager – Operations, Hope Creek and Operations Superintendent's approval of any proposed retractions.
2. COMPLETE "page 1" of the NRC Data Sheet which was implemented to make the original notification. Event Description Section of NRC Data Sheet should explain the rationale for the retraction.
3. NOTIFY the NRC Operations Center and NRC Resident Inspector

4. RECORD on the "NRC Data Sheet" the name of the NRC Contact that received the retraction information.
5. FORWARD the retraction "NRC Data Sheet" with the rest of the original attachment of the ECG that was implemented when the original notification was made.

H. Non-emergency Information Update Guidance

IF additional information needs to be transmitted to the NRC concerning a previously reported non-emergency event,
THEN MAKE notifications as follows:

1. COMPLETE Page 3 of the NRC Data Sheet form for event update.
2. OBTAIN the approval of the OS to release the information.
3. NOTIFY all organizations and individuals who were initially contacted AND DOCUMENT the update.
4. FORWARD all update paperwork with the original ECG Attachment package.

I. Common Site Events Guidance

Selected EALs (Unusual Event level only) and selected RALs have been designated as "Common Site" events. These events will be annotated with the words, "Common Site" in the Action Required portion of the EAL sections.

The referenced ECG Attachment will direct the OS to establish agreement on which OS will declare and report the event. Therefore, either Salem or Hope Creek will report Common Site events, but not both.

Events classified at an Alert or higher level require plant specific information to be provided to the states of New Jersey and Delaware, the NRC, and to PSEG Emergency Response Facilities and therefore will not be classified as common site events.

ATTACHMENT 8

SECONDARY COMMUNICATOR LOG

Table of Contents

Pages

1 - 2 Notifications & Data Collection/Transmission
 3 - 4 Incoming Calls (BNE, DEMA, OEM, AAAG, etc.)
 5 Major Equipment & Electrical Status (MEES) form
 6 Operational Status Board (OSB) form
 7 - 8 Station Status Checklist (SSCL) form
 9 Common Site UNUSUAL EVENT – Station Status Checklist form

PSE&G
CONTROL
COPY # HECG-0065

Emergency Classification: (circle)	UE	ALERT	SAE	GE
Name: _____	Position: CM2 /TSC2/ EOF2			
(Print)	(circle)			

A. NOTIFICATIONS

NOTE

A new Attachment 8 is required to be implemented if the classification changes.

Initials

- If **GE** classification, assist Primary Communicator with 15 minute notification. _____
CM2/TSC2/EOF2
- DIRECT the Shift Rad Pro Tech (SRPT) (x3741) to implement **EPIP 301H**, RPT Onshift Response. (N/A for Common Site)
Name: _____ Time: _____
CM2
- For an ALERT or higher emergency;
 - CALLOUT an additional NSTA.
Name: _____ Time: _____
CM2

A. NOTIFICATIONS (cont'd)

- b. **ACTIVATE ERDS** within 60 minutes from EITHER the NSS Office or the CR SPDS terminal;
- 1) **PRESS <ERDS>** key.
 - 2) **PRESS <Pg Up>** key to select "ACTIVATE ERDS COMMUNICATION."
 - 3) **FOLLOW** screen prompts.

CM2

4. **COMPLETE** a **Station Status Checklist (SSCL)** Form, Pg. 7 or **Common Site UNUSAL EVENT Station Status Checklist (SSCL)** Form, Pg. 9;
- a. **OBTAIN OS (TSS/SSM)** assistance, as needed for Pg.1.
 - b. **OBTAIN SRPT (RAC/RSM)** assistance, as needed for Pg.2. (N/A for Common Site)
 - c. **FAX** to Group B. (EOF2 – FAX to Group D)
 - d. IF fax transmission of the SSCL is incomplete, THEN CONTACT the State Agencies listed below, READ the data, AND DOCUMENT on SSCL, Pg. 2.

DEMA Delaware Emergency Management Agency 302-659-2290
BNE NJ Bureau of Nuclear Engineering 609-984-7700

CM2/TSC2/EOF2

5. **OBTAIN** a completed **NRC Data Sheet** from the CM-1 and FAX form to Group B (EOF2 – FAX to Group D)
6. **REPEAT** Step 4 approximately every half hour OR IMMEDIATELY for significant changes in Station status, until either Turnover or relief.

CM2/TSC2/EOF2

CM2/TSC2/EOF2

7. **TURNOVER** responsibility for offsite notifications and offsite data updates (SSCLs) to the oncoming facility (TSC or EOF);
- a. **GIVE** names and phone numbers of contacts already made with any Offsite Agencies.
 - b. **GIVE** time for next SSCL.

CM2/TSC2

B. DATA COLLECTION/TRANSMISSION

1. WHEN in an ALERT or higher emergency OR AFTER significant changes in plant status; THEN COMPLETE the **Major Equipment and Electrical Status (MEES)** Form.
- a. **OBTAIN** Licensed Operator review.
 - b. **GIVE** a copy to the OSC Coordinator.
 - c. **FAX** to Group C.

CM2

B. DATA COLLECTION/TRANSMISSION (cont'd)

2. IF requested by the TSC,
THEN COMPLETE the **Operational Status Board (OSB)** Form every 15 minutes;
(TSS may modify the frequency or data list as appropriate)
- () a. OBTAIN Licensed Operator review.
 - () b. FAX to Group C

CM2

3. VERIFY availability of "OPERATIONAL STATUS BOARD (OSB) FORM"
data on the VAX printer.

- () a. IF OSB data is available,
THEN SELECT or REQUEST Rad Pro to select Menu Option #2
(Current Ops Status) every 15 minutes on the VAX LA 120.
- () b. IF VAX data is NOT available,
THEN OBTAIN data from CRIDS Page Display # 232.
- () c. IF CRIDS data is NOT available,
THEN REQUEST the CM2 in CR to begin transmitting the OSB form.

TSC2

4. ENSURE the Facility OSB and MEES Status Boards are updated;

- () a. IF OSB data is NOT available,
THEN REQUEST CM2 to perform step B.2, above. (data set and frequency
of updates may be revised by the TSS based on event circumstances)
- () b. WHEN significant changes in plant systems status occur,
THEN REQUEST CM2 to perform step B.1, above.

TSC2/EOF2

5. WHEN the emergency is terminated,
THEN FORWARD this document and all completed Forms to the OS (TSS/SSM).

CM2/TSC2/EOF2

C. INCOMING CALLS

STATE OFFICIALS

1. IF Notifications authority has transferred,
THEN DIRECT the caller to contact the TSC (or EOF if activated).
2. WHEN contacted by any State Agency Officials (listed here),

CM2/TSC2

DEMA - Delaware Emergency Management Agency
AAAG - Delaware Accident Assessment Advisory Group
BNE - NJ Bureau of Nuclear Engineering
DEP - NJ Department of Environmental Protection
OEM - NJ Office of Emergency Management

CM2/TSC2/EOF2

PERFORM the following, on Pg. 4;

C. INCOMING CALLS (cont'd)

STATE OFFICIALS

- () a. OBTAIN and RECORD;
Agency Caller's Name Phone #

- () b. READ the latest EC approved SSCL.
- () c. IF caller is NJ-BNE, DEMA, or AAAG,
THEN also READ the approved NRC Data Sheet Event Description.

NEWS MEDIA

CAUTION

Communicators are NOT authorized to release any information to the News Media.

3. WHEN contacted by any News Media representative,
READ the appropriate message below;
- () a. IF the ENC is not activated (Unusual Event), say;
"You are requested to contact the Nuclear Communications
Office at any of the following numbers; 856-339-1186."
- () b. IF the ENC is activated (ALERT or higher), say;
"You are requested to contact the Media Information Operator
at any of the following numbers; 856-273-0188, -0282, -0386,
-0479, or -0586."

CM2/TSC2/EOF2

NRC OPERATIONS CENTER

4. WHEN directed by the NRC to TERMINATE ERDS transmission,
THEN GO TO any CR SPDS terminal AND PROCEED as follows;
- a. PRESS <ERDS> key.
b. PRESS <Pg Dn> key to select "TERMINATE ERDS COMMUNICATION."
c. FOLLOW screen prompts.
d. WHEN completed, NOTIFY the OS.

CM2

HOPE CREEK
MAJOR EQUIPMENT AND ELECTRICAL STATUS

DATE: _____
UPDATE TIME: _____

NOTE: Y = IN SERVICE N = OUT OF SERVICE (CIRCLE ANY UNAVAILABLE EQUIPMENT)			REACTIVITY CONTROL		ELECT. FEED	Y/N	CONTAINMENT CONTROL		ELECT. FEED	Y/N	
			SLC PUMPS	A	B212		FRVS RECIRC FANS	A	B410		
				B	B222			E	B450		
			RWCU PUMPS	A	B254			B	B420		
				B	B264			F	B460		
REACTOR RECIRC PUMPS	A	A110		C	B430						
	B	A120		D	B440						
WATER COOLING SYSTEMS	ELECT. FEED	Y/N	CRD PUMPS	A	B430		FRVS VENT FANS	A	B212		
				B	B440			B	B222		
SW PUMPS	A	A401	ELECTRICAL STATUS			Y/N	H2 RECOMBINERS	A	B410		
	C	A403	OFFSITE AC POWER AVAILABLE					B	B480		
	B	A402	EMERGENCY DIESELS	RUN	LOADED		PCIG COMPRESSORS	A	B232		
	D	A404						B	B242		
SACS PUMPS	A	A401	EDG	A			SERVICE AIR COMPRESSORS	ELECT. FEED		Y/N	
	C	A403		B					00K107	A120	
	B	A402		C				10K107	A110		
	D	A404		D							
RACS PUMPS	A	B415	HVAC	ELECT. FEED	Y/N	EMER. INST. AIR COMPRESSOR	ELECT. FEED	Y/N			
	B	B426				10K100	B450				
	C	B250	TURBINE BLDG	A	A110						
CIRC WATER PUMPS	A	A501	CHILLED WATER CHILLERS	B	A120		ECCS	ELECT. FEED		Y/N	
	B	A502		C	A101				A401		
	C	A501		D	A110		RHR PUMPS	A	A401		
	D	A502	TURBINE BLDG	A	B130			C	A403		
CONDENSATE/ FEEDWATER	ELECT. FEED	Y/N	CHILLED WATER	B	B120			B	A402		
			CIRC PUMPS	C	B110			D	A404		
PRIMARY CONDENSATE PUMPS	A	A110	CONTROL AREA	A	B431		RCIC PUMPS	STEAM			
	B	A120	CHILLED WATER				HPCI PUMPS	STEAM			
	C	A102	CIRC PUMPS	B	B441		CORE	A	A401		
SECONDARY CONDENSATE PUMPS	A	A110	CONTROL AREA	A	A403		SPRAY PUMPS	C	A403		
	B	A120	CHILLED WATER						B	A402	
	C	A104	CHILLERS	B	A404				D	A404	
FEED WATER PUMPS	A	STEAM	TSC	A	B451						
	B	STEAM	CHILLED WATER								
	C	STEAM	CIRC PUMPS	B	B461						
			TSC	A	A401						
			CHILLED WATER CHILLERS	B	A402						

LICENSED OPERATOR REVIEW: _____

OPERATIONAL STATUS BOARD - HOPE CREEK

NOTE: 1) IF REQUESTED, TRANSMIT THIS FORM TO GROUP D (TSC AND EOF) EVERY 15 MINUTES.
2) PROVIDE A COPY TO THE OSC COORDINATOR.
3) SEE CRIDS PAGE 232 FOR DATA.

DATE: _____

TIMES (24-HOUR CLOCK)

I.	BALANCE OF PLANT	INST E PLAN	UNITS	_____	_____	_____	_____
A.	CST LEVEL	(1)	X 10 ⁴ GAL	_____	_____	_____	_____
B.	CONDENSER PRESSURE	(2)	IN. HGa	_____	_____	_____	_____
C.	RCIC FLOW	(3)	GPM	_____	_____	_____	_____
D.	FEED FLOW	(4)	MLB/HR	_____	_____	_____	_____
II.	ECCS						
A.	RHR/LPCI FLOW-A**	(5)	GPM	_____	_____	_____	_____
	RHR/LPCI FLOW-C	(5)	GPM	_____	_____	_____	_____
	RHR/LPCI FLOW-B**	(6)	GPM	_____	_____	_____	_____
	RHR/LPCI FLOW-D	(6)	GPM	_____	_____	_____	_____
B.	HPCI PUMP FLOW	(7)	GPM	_____	_____	_____	_____
C.	CORE SPRAY FLOW-A	(8)	GPM	_____	_____	_____	_____
	CORE SPRAY FLOW-B	(9)	GPM	_____	_____	_____	_____
D.	SRV (OPEN) STATUS	(10)	# OPEN	_____	_____	_____	_____
III.	RX COOLANT SYSTEM						
A.	POWER	(11-16)	% or CPS	_____	_____	_____	_____
B.	WATER LEVEL	(17,20,21,22)	IN.	_____	_____	_____	_____
C.	PRESSURE	(18,19)	PSIG	_____	_____	_____	_____
D.	TEMPERATURE	(23)	DEGREES F	_____	_____	_____	_____
E.	RECIRC FLOW - A LOOP	(24)	X 10 ³ GPM	_____	_____	_____	_____
	RECIRC FLOW - B LOOP	(24)	X 10 ³ GPM	_____	_____	_____	_____
F.	JET PUMP FLOW (TOTAL)	(25)	MLB/HR	_____	_____	_____	_____
IV.	CONTAINMENT						
A.	DRYWELL PRESSURE	(26,27)	PSIG	_____	_____	_____	_____
	TEMPERATURE	(28,29)	DEGREES F	_____	_____	_____	_____
	H2 CONC.	(30,31)	%	_____	_____	_____	_____
	O2 CONC.	(30,31)	%	_____	_____	_____	_____
B.	SUPP. CHAMBER PRESS.	(26,27)	PSIG	_____	_____	_____	_____
	AIR TEMPERATURE	(28,29)	DEGREES F	_____	_____	_____	_____
	WATER LEVEL	(32)	IN.	_____	_____	_____	_____
	WATER TEMPERATURE	(33,34)	DEGREES F	_____	_____	_____	_____
C.	RX BLDG. DELTA P	(35,36)	IN. H ₂ O	_____	_____	_____	_____
V.	SSCL						
A.	OFFSITE POWER AVAILABLE?		YES/NO	_____	_____	_____	_____
B.	3 OR MORE DG'S AVAILABLE?		YES/NO	_____	_____	_____	_____
C.	DID ANY ECCS ACTUATE?		YES/NO	_____	_____	_____	_____
D.	IS THE CONTAINMENT BARRIER FAILED?		YES/NO	_____	_____	_____	_____

LICENSED OPERATOR REVIEW

INITIALS: _____

OTHER SIGNIFICANT ITEMS

** IF NOT IN LPCI MODE FLOW RATE IS CIRCLED (I.e. S/D COOLING, CONT. SPRAY, ETC.)

STATION STATUS CHECKLIST

(Pg. 1 of 2)

Operational Information

HOPE CREEK GENERATING STATION Message Date _____ Time _____

Transmitted By: Name _____ Position _____
(CR/TSC/EOF)

1. Date and Time Event Declared: Date _____ Time _____ (24 hr clock)

2. Event Classification: Unusual Event Site Area Emergency
 Alert General Emergency

3. Cause of Event: Primary Initiating Condition used for declaration

EAL #(s) _____

Description of the event _____

4. Status of Reactor: Scrammed/Time _____ At Power
 Startup Hot Shutdown Cold Shutdown Refuel

5. Rx Pressure _____ psig Rx Temp _____ °F Rx Water Level _____ in.

6. Is offsite power available? YES NO

7. Are three or more diesel generators available? YES NO

8. Did any Emergency Core Cooling Systems actuate? YES NO

9. Is the Containment barrier failed? (Loss per EAL section 3.3) YES NO

10. Other pertinent information _____

STATION STATUS CHECKLIST
(PAGE 2 OF 2)
RADIOLOGICAL INFORMATION

ECG
ATT 8
Pg. 8 of 9

HOPE CREEK GENERATING STATION - CALCULATION TIME: _____ DATE: _____

1. GASEOUS RELEASE>TECH SPEC (T/S) LIMITS:

(T/S LIMITS: 1.2 E+04 μ Ci/sec NG or 1.7E+01 μ Ci/sec IODINE)

YES: [] RELEASE START TIME: _____ DATE: _____

NO: []

- A. RELEASE TERMINATED: YES [] NO [] N/A []
- B. ANTICIPATED OR UNKNOWN DURATION OF RELEASE: _____ HOURS
- C. TYPE OF RELEASE: GROUND [] ELEVATED: [] N/A []
- D. ADJUSTED WIND SPEED: _____ (mph) _____ (m/sec) WIND DIR (deg from) _____
- E. STABILITY CLASS: _____ (A-G)
- F. VENT PATH OF RELEASE: NPV [] SPV [] FRVS [] HTV []
- G. NG RELEASE RATE: NPV _____ SPV _____ FRVS _____
HTV _____ (μ Ci/sec)
- H. I-131 RELEASE RATE: NPV _____ SPV _____ FRVS _____
HTV _____ DEFAULT (μ Ci/sec) (circle if default)
- I. TOTAL RELEASE RATE NOBLE GAS: _____ (μ Ci/sec)
- J. TOTAL RELEASE RATE IODINE-131: _____ (μ Ci/sec)

2. PROJECTED OFFSITE DOSE RATE CALCULATIONS:

DISTANCE FROM VENT (IN MILES)	XU/Q (1/M2)	TEDE RATE (MREM/HR)	TEDE DOSE (4 DAY) (MREM)	THYROID-CDE RATE (MREM/HR)	THYROID-CDE DOSE (MREM)
MEA 0.56	_____	_____	_____	_____	_____
2.00	_____	_____	_____	_____	_____
LPZ 5.00	_____	_____	_____	_____	_____
EPZ 10.00	_____	_____	_____	_____	_____

3. OTHER PERTINENT INFORMATION: _____

4. UPDATE TO STATES (IF VERBALLY TRASMITTED):

	NAME	TIME	INITALS
STATE OF NEW JERSEY:	_____	_____	_____
STATE OF DELAWARE :	_____	_____	_____
AGENCY:	_____	_____	_____

APPROVED: _____

EC or RAC or RSM

**Common Site Unusual Event
STATION STATUS CHECKLIST**

Operational Information

Message Date _____ Time _____

Transmitted by: Name _____ Position _____

1. Date and Time Event Declared: Date _____ Time: _____

2. Cause of event: Primary Initiating Condition used for declaration

EAL# _____

Description of the event:

33FT. LEVEL WIND DIRECTION (From): _____ WIND SPEED _____
(From MET Computer) (DEGREES) (MPH)

3. Status of the Reactors	Mode: (Power, Startup, Hot Standby, Hot S/D, Cold S/D, Refuel.)	Rx Pressure	Rx Temp / Hottest Core Exit TC	Rx Water Level
Hope Creek		psig	°F	in.
Salem 1		psig	°F	
Salem 2		psig	°F	

	Hope Creek		Salem 1		Salem 2	
	YES	NO	YES	NO	YES	NO
4. Is offsite power available?						
5. Are two or more diesel generators operable?						
6. Did any Emergency Core Cooling Systems actuate?						
7. Is any Containment Barrier failed? (Loss per EAL section 3.3)						
8. Radiological release (> Tech Spec Limit) in progress		X		X		X

9. Other pertinent information _____

EC Initials
(Approval to Transmit ICMF)