


Approval <i>J. Bockhold</i>	Vogtle Electric Generating Plant NUCLEAR OPERATIONS	 Georgia Power	Procedure No. 01000-C
Date 6/9/89	Unit <u>COMMON</u>		Revision No. 1
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FOR INFORMATION ONLY

MANAGEMENT OF OUTAGES

05-150-90

READ AND DESTROY

- 1.0 PURPOSE
- 1.1 This procedure identifies five outage types and describes personnel responsibilities during each of those outages. See Table 1, Management of Outages.
- 1.2 This procedure applies to all plant personnel preparing for or participating in an outage activity.

2.0 DEFINITIONS

- 2.1 NORMAL PLANT OPERATION
Plant is at power and routine maintenance activities are in progress. Minimum schedule is the rolling, three-day look ahead. The normal chain of command is in effect. Work Planning group is supporting preplanning activities for types III through V outages.
- 2.2 TYPE I - MINOR SYSTEM OUTAGE
System or subsystem outage which does not affect plant operation, as determined by the OSOS, i.e., turbine building HVAC, normal lighting, etc. Minimum schedule is use of a standard, manually prepared format. A systems engineer or department supervisor, selected by plant superintendents, is the outage leader. Work Planning group is supporting the normal work planning process.

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2.3 TYPE II - SYSTEM OUTAGE

System or systems outage having moderate or potentially moderate effect on plant operation as determined by the OSOS, e.g., one safety-related train, technical specification limiting condition for operations, condensate demins, penetration seals, etc. Minimum schedule is use of a standard, manually prepared format. A systems engineer or department supervisor, selected by plant management, is the Outage Leader. Work Planning Group or Outage Leader may request dedicated individual from Work Planning or Outage Planning to support the normal work planning process.

2.4 TYPE III - FORCED OUTAGE

Any outage derating the unit, or any shutdown less than 72 hours, e.g., reactor coolant pump. Minimum schedule is use of the standardized, 7-day forced-outage format. An Outage Leader is selected by plant management, and is typically an Operations Supervisor, and an Assistant Outage Leader may also be named. Work Planning Group Scheduler is supporting a management-approved work planning process.

2.5 TYPE IV - PLANNED OUTAGE

Plant shutdown of greater than 72 hours, breaker-to-breaker. Minimum schedule is use of the standardized, 7-day forced-outage format. The Outages and Planning Manager is the Outage Leader. Outages and Planning Manager is the Outage Leader. Outages and Planning Scheduler, and Work Planning Group support personnel, are supporting a management-approved work planning process.

2.6 TYPE V - SCHEDULED OUTAGE

Refueling outage. Minimum schedule is Project/2. The Outages and Planning Manager is the Outage Leader. Outages and planning staff is supporting a management-approved work planning process.

2.7 REFUELING OUTAGE SCOPE

The scope of a refueling outage is the list of all major activities to be performed during the associated outage. This list includes the planned work on all major components, programs, and significant inspections/surveillances. The list may also identify the number of design changes, corrective maintenance MWO's, preventative maintenance MWO's, and technical specification surveillances anticipated or approved.

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3.0 RESPONSIBILITIES

3.1 PLANT PERSONNEL

3.1.1 Immediately report to their supervisor any aberrant, unsafe, or potentially unsafe equipment condition which may imminently cause or contribute to a Type I through IV outage.

3.1.2 Immediately report to their supervisor any actual or suspected occurrence of events or circumstances which may imminently cause or contribute to a Type I through IV outage.

3.1.3 Identify and report conditions adverse to the safe and reliable operation of the plant per Procedure 00150-C, "Deficiency Control".

3.2 DEPARTMENT HEADS

Provide full support and resources to the Outage Leader to the extent and duration required for restoring the unit.

3.3 DUTY MANAGER

Use authority to call out the Response Team as required.

4.0 PROCEDURE INSTRUCTIONS

4.1 NORMAL PLANT OPERATION

4.1.1 The site chain of command will ensure shift set-up is routine during normal plant operation.

4.1.2 The Work Planning Group will provide input, as requested, into the daily plant operations status meetings and the twice-weekly engineering problems meetings.

4.2 TYPE I

NOTE

Routinely, this type outage can wait until normal "day shift" personnel are able to address it as prescribed in Subsections 4.1.1 and 4.1.2.

4.2.1 Outage Identification

The Operations Scheduler in the Work Planning Group identifies the need for an outage based on:

- a. The number of system items requiring an outage, or
- b. The nature of the equipment requiring an outage and what that equipment affects.

4.2.2 Outage Leader Appointment

The Superintendent ~~and/or~~ Managers of Work Planning, Operations, Engineering, Technical Support, and Maintenance select a system engineer or department supervisor as the Outage Leader.

4.3 TYPE II

4.3.1 Outage Leader Appointment

4.3.1.1 During Normal Working Hours

The Outage Leader will be appointed by the Managers of Outages and Planning, Operations, and Maintenance, and the Assistant General Manager-Support.

4.3.1.2 Outside Normal Working Hours

The Duty Manager will be notified of an outage need by the OSOS. The duty manager will select the Outage Leader so that the leader can begin to mobilize his resources to develop the outage scope and determine its schedule.

4.4 TYPE III

4.4.1 Outage Leader Appointment

4.4.1.1 During Normal Working Hours

The Outage Leader will be appointed by the Managers of Outages and Planning, Operations, and Maintenance, and the Assistant General Manager-Support.

4.4.1.2 Outside Normal Working Hours - Reactor Trip

- a. For a reactor trip, either manual or auto, the Duty Manager will be notified by the OSOS. The duty manager will then call to the site (if not already present) a Response Team consisting of the Duty Superintendent/Manager from the following departments: Operations, Engineering or Technical, Maintenance, Outage & Planning, HP/Chemistry.
- b. The function of the Response Team is to assist the OSOS in assessing the problems related to the trip. The teams also responsible for supporting and coordinating with departmental individuals for restart/work activities.

4.4.1.3 Outside Normal Working Hours - Plant Derating Or Controlled Shutdown.

The Duty Manager will be notified of plant derating or controlled shutdown by the OSOS. The Duty Manager, based upon his judgment of the situation, will exercise one of the following two options:

- a. Call the Response Team to site (if not already present), as described in 4.4.1.2.
- b. Immediately select the Outage leader such that the leader can begin to mobilize his resources to develop the outage scope and implement a recovery schedule.

4.5 TYPE IV

NOTE

Generally, a Type IV outage will evolve out of an existing Type II or Type III. In these cases, the Outages and Planning Manager will already be involved and will be familiar with the outage evolution.

4.5.1 During Normal Working Hours

Upon declaration of upgrading the outage to a Type IV, the Outages and Planning Manager will mobilize resources to refine the schedule and finalize its scope.

4.5.2 Outside Normal Working Hours

If the initial assessment indicates the need for an extended forced outage, the Duty Manager will be notified by the OSOS. If the Duty Manager, with the assistance of the Response Team, concurs with that assessment, he will then be responsible for notifying the Outages and Planning Manager (or the manager's designee) to mobilize the manager's resources for scope finalization and for schedule implementation.

4.6 TYPE V

Unlike Types I-IV, which are unplanned, Type V are planned outages scheduled for refueling purposes every 12 to 18 months. The Outages and Planning Manager is the Outage Leader who shall have already mobilized the manpower resources and marshalled the required materials. Outage schedule scope has already been predetermined and approved by the Vice-President Vogtle Project.

4.7 OUTAGE TYPE UPGRADING

4.7.1 From Type II to Type III

To upgrade an existing Type II to a Type III outage requires management decision based upon known conditions or a unit trip.

4.7.2 From Type III to Type IV

At 60 hours into a Type III outage, the Outage Leader determines if the 72-hour limit will be met or exceeded. If it is to be exceeded, and upgrade into Type IV is required, the Outage Leader will notify the General Manager and the Outages and Planning Manager.

5.0 OUTAGE SCOPE APPROVAL

5.1 TYPES I, II, III, IV

The scope of these type outages is approved by the Outages & Planning Manager, Assistant General Manager-Support, General Manager Nuclear Plant Vogtle.

5.2 Type V

The scope of refueling outages and changes thereto are approved by the Vice-President, Vogtle Project. Typically, this approval is granted 12 months prior to the unit being shut down for outage. Approvals may be granted by telephone, but should be followed up by written correspondence.

6.0 REFERENCES

6.1 INPO 83-025 January 1984 Good Practice MA-308,
 "Unscheduled Outage Planning"

6.2 PROCEDURES

6.2.1 00150-C, "Deficiency Control"

6.2.2 00350-C, "Maintenance Program"

6.2.3 29530-C, "Outage Management Program"

6.2.4 29537-C, "Outage Scheduling"

6.2.5 29539-C, "Long-Range Planning"

END OF PROCEDURE TEXT

TABLE I - MANAGEMENT OF OUTAGES
(OPERATIONS IS IN CHARGE OF THE PLANT)
MANAGEMENT OF PLANT EVOLUTIONS
OPERATIONS IS IN CHARGE OF THE PLANT

TYPE

TYPE	DESCRIPTION	LEADER	SCHEDULER	MINIMUM SCHEDULE	MEETINGS	SHIFT SET-UP	SUPPORT PREPLANNING ACTIVITIES FOR TYPES III-V	SCOPE FREEZE
Normal Plant Operation	PLANT AT POWER ROUTINE MAINTENANCE ACTIVITIES	NORMAL CHAIN OF COMMAND	WORK PLANNING GROUP	ROLLING SCHEDULE THREE-DAY-LOOKAHEAD	DAILY OPERATIONS PLANT STATUS TWICE WEEKLY ENGINEERING PROBLEMS MEETING	NORMAL		NOT APPLICABLE
I Minor System Outage	SYSTEM OR SUBSYSTEM OUTAGE WHICH DOES NOT AFFECT PLANT OPERATION.	SYSTEM ENGINEER OR DEPARTMENT SUPERVISOR SELECTED BY PLANT MANAGEMENT	WORK PLANNING GROUP	MANUAL-USE STANDARDIZED FORMAT OPERATIONS MAINTAINS EQUIPMENT RETURN-TO-SERVICE LIST	ENGINEERING PROBLEM MEETING IF CALLED BY MGMT.	NORMAL	NORMAL WORK PLANNING PROCESS	YES - LEADER TO DETERMINE
II System Outage	SYSTEM OR SYSTEMS OUTAGE - MODERATE OR POTENTIAL MODERATE EFFECT ON PLANT OPERATION	SYSTEM ENGINEER OR DEPARTMENT SUPERVISOR SELECTED BY PLANT MANAGEMENT	WORK PLANNING GROUP OR LEADER MAY REQUEST DEDICATED INDIVIDUAL FROM WORK PLANNING OR OUTAGE PLANNING	MANUAL-USE STANDARDIZED FORMAT	PLANT STATUS MEETING - AGENDA ITEM	LEADER TO DETERMINE	NORMAL WORK PLANNING PROCESS	YES - LEADER TO DETERMINE FOR OPERATIONS MANAGEMENT APPROVAL
III Short Forced Outage	ANY OUTAGE DEGRATING THE UNIT OR ANY SHUTDOWN LESS THAN 72 HOURS	SELECTED BY MANAGEMENT, TYPICALLY OPERATIONS SUPERVISOR ASSISTANT MAY BE NAMED	WORK PLANNING GROUP SCHEDULER	MANUAL-USE STANDARDIZED OUTAGE SCHEDULE	DAILY OUTAGE MEETINGS	YES - LEADER TO RECOMMEND TO MANAGEMENT OTHERWISE	YES - MANAGEMENT TO APPROVE	YES - LEADER TO DEFINE FOR MANAGEMENT APPROVAL WITHIN 2 HOURS OF PROBLEM DETERMINATION
IV Extended Forced Outage	PLANT SHUTDOWN OF GREATER THAN 72 HOURS BREAKER-TO-BREAKER	MANAGER OF OUTAGE AND PLANNING	OUTAGE AND PLANNING SCHEDULER WORK PLANNING GROUP SUPPORT	7 DAY FORCED OUTAGE SCHEDULE	DAILY OUTAGE MEETINGS	YES	YES - MANAGEMENT TO APPROVE	YES - LEADER TO DETERMINE FOR MANAGEMENT APPROVAL WITHIN 8 HOURS
V Scheduled Outage	REFUELING OUTAGE	MANAGER OF OUTAGE AND PLANNING	OUTAGE AND PLANNING STAFF	PROJECT / 2	DAILY OUTAGE MEETINGS	YES	YES - MANAGEMENT TO APPROVE	ENGR MODS 6 MONTHS PRIOR TO OUTAGE; FINAL SCOPE APPROV BY VICE-PRESIDENT, UOBTLE PROJECT