

STI 31781442	0POP01-ZO-0006	Rev. 13	Page 1 of 30
Extended Allowed Outage Time			
Quality	Safety-Related	Usage: IN HAND	Effective Date: 9/02/04
Mike Foster	N/A	N/A	Operations
PREPARER	TECHNICAL	USER	COGNIZANT DEPT.

<u>Table of Contents</u>	<u>Page</u>
1.0 Purpose and Scope	2
2.0 Prerequisites	3
3.0 Notes and Precautions	3
4.0 Responsibilities	6
5.0 Planned Entry Preparation	6
6.0 Planned Entry	14
7.0 Unplanned Entry	16
8.0 Restoration	23
9.0 References	24
10.0 Support Documents	25
Addendum 1, Extended Allowed Outage Time Briefing Sheet	26
Addendum 2, Extended Allowed Outage Sign Locations	28
Form 1, 138KV Line Verification	29

	0POP01-ZO-0006	Rev. 13	Page 2 of 30
Extended Allowed Outage Time			

1.0 Purpose and Scope

- 1.1 Provide guidelines for the accomplishment, control, and documentation of activities performed in preparation for and operations during an Extended Allowed Outage Time (EAOT) for AFW, SDG, ECW, or Essential Chilled Water LCO's planned and unplanned.
- 1.2 Establish compensatory measures to offset the risk impacts of entering an EAOT for the AFW, SDG, ECW, or Essential Chilled Water LCO's which are consistent with the Configuration Risk Management Program (Reference 9.7).
- 1.3 This procedure is applicable in Modes 1, 2, 3 & 4.
- 1.4 The EAOT SHALL be considered to be one of the following:
 - 1.4.1 Entering ECW System Technical Specification LCO 3.7.4 [ITS 3.7.8] which extends OR is projected to extend beyond 72 hours while in Modes 1, 2, 3, or 4. (Reference 9.2)
 - 1.4.2 Entering Essential Chilled Water System Technical Specification LCO 3.7.14 [ITS 3.7.10] which extends OR is projected to extend beyond 72 hours while in Modes 1, 2, 3, or 4. (Reference 9.2)
 - 1.4.3 Entering A.C. Sources 14 day LCO Technical Specification 3.8.1.1.b, 3.8.1.1.c, or 3.8.1.1.f [ITS 3.8.1 Conditions B and E]) which extends OR is projected to extend beyond 72 hours while in Modes 1, 2, 3, or 4. (Reference 9.2)
 - 1.4.4 Entering A.C. Sources 24 hour LCO (Technical Specification 3.8.1.1.d or 3.8.1.1.f [ITS 3.8.1 Condition B or C]) which extends OR is projected to extend beyond 2 hours while in Modes 1, 2, 3, or 4. (Reference 9.2)
 - 1.4.5 Entering AFW System 28 day Technical Specification LCO 3.7.1.2 for a MDAFW pump which extends OR is projected to extend beyond 14 days. (Reference 9.4)

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 3 of 30
Extended Allowed Outage Time			

INITIALS

2.0 Prerequisites

- 2.1 This procedure SHALL only be performed in Modes 1, 2, 3 & 4. RECORD current plant mode:

Mode _____

- 2.2 IF one of the following conditions are met, THEN PERFORM this procedure:

2.2.1 A planned entry into an EAOT. _____

2.2.2 An unplanned entry into an EAOT. _____

3.0 Notes and Precautions

- 3.1 IF in Modes 3 or 4 OR the Risk Assessment Calculator (RAsCal) is unable to calculate the risk profile, THEN contact Risk and Reliability Analysis for assistance in application of currently available PSA models.
- 3.2 The EAOT is based on having the compensatory measures of this procedure in place to offset additional risk as outlined in the Safety Evaluation Report for Technical Specification Amendments 85 and 72 (Reference 9.1, 9.3).
- 3.3 Entry into AFW, SDG, ECW, or Essential Chilled water LCO's which are of a duration LESS THAN the EAOT, **DO NOT** need to have the compensatory measures of this procedure implemented.
- 3.4 Steps within this procedure should be performed in order. Shift Supervisor discretion may be used to deviate from the sequence listed and repeat steps as necessary.
- 3.5 The Unit OR Shift Supervisor SHALL sign off OR initial all steps unless otherwise designated within this procedure.
- 3.6 Planned maintenance on required systems, subsystems, trains, components, and devices that depend on the other trains of equipment during the EAOT SHALL **NOT** be performed. (Reference 9.1, 9.3)

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 4 of 30
Extended Allowed Outage Time			

- 3.7 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN planned maintenance OR other planned testing of the TSC DG SHALL **NOT** be allowed throughout the EAOT. (Reference 9.1)
- 3.8 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN planned maintenance OR other planned testing of the Positive Displacement Charging Pump (PDP) SHALL **NOT** be allowed throughout the EAOT. (Reference 9.1)
- 3.9 Planned maintenance on the Emergency Transformer OR the 138KV Blessing to STP AND Lane City to Bay City lines SHALL **NOT** be allowed throughout the EAOT. (Reference 9.1, 9.3)
- 3.10 Approval of all unscheduled emergent STP work SHALL be in accordance with 0PGP03-ZA-0090, Work Process Program.
- 3.11 Maintenance activities in the switchyard which could directly cause a Loss Of Offsite Power event SHALL be prohibited unless required to ensure the continued reliability and availability of the offsite power sources. Items in the Approved Work Schedule should be reviewed for acceptability during an EAOT.
- 3.12 Compensatory measures when entering Auxiliary Feedwater 28 day LCO Technical Specification 3.7.1.2 which extends OR is projected to extend beyond 14 days: (Reference 9.3)
 - 3.12.1 Ensure the work schedule contains no planned maintenance on required systems, subsystems, trains, components, and devices that depend on or that affect the remaining AFW motor-driven pump trains.
 - 3.12.2 Ensure the work schedule contains no planned maintenance activities in the switchyard that could directly cause a loss of offsite power event. Maintenance activities identified after the extended allowed outage time begins that are required to ensure the continued reliability and availability of the offsite power sources are permitted.
 - 3.12.3 If the plant is in Mode 1, 2, or 3, then verify the work schedule contains no planned maintenance on the turbine-driven auxiliary feedwater pump.
 - 3.12.4 Ensure the work schedule contains no planned maintenance that would result in the essential cooling water system and the systems it supports being declared non-functional.

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 5 of 30
Extended Allowed Outage Time			

- 3.12.5 Ensure the work schedule contains no planned maintenance that would result in an inoperable open containment penetration.
- 3.12.6 Ensure the work schedule contains no planned maintenance on switchgear 1L or 1K (Unit 1) or switchgear 2L or 2K (Unit 2) in the affected unit.
- 3.12.7 Ensure the work schedule contains no planned maintenance on the 138 kV emergency transformer.
- 3.13 Containment purges SHALL be strictly controlled and of short duration. Normally containment purges should only be required for pressure control. Although not prohibited during the EAOT, containment purges for ALARA and respirable air quality considerations for personnel entry and for surveillance tests should be planned for periods other than during the EAOT. (Reference 9.1, 9.3, 9.5).
- 3.14 Procedure Sections 5.0, Planned Entry Preparation, and 6.0, Planned Entry, SHALL be performed for a planned entry into the EAOT.
- 3.15 Procedure Section 7.0, Unplanned Entry, SHALL be performed for an unplanned entry into the EAOT.

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 6 of 30
Extended Allowed Outage Time			

Initials

4.0 Responsibilities

- 4.1 This procedure SHALL be performed by Plant Operations.
- 4.2 The Shift Supervisor has overall responsibility for implementing this procedure.

NOTE

IF the conditions of Section 5.0 Planned Entry Preparation are NOT met, THEN a planned entry into the EAOT SHALL NOT be made.

5.0 Planned Entry Preparation

- 5.1 VERIFY that the station is **NOT** under hurricane, tornado, or flood watches or warnings. (Reference 0POP04-ZO-0002, Natural or Destructive Phenomena Guidelines) _____
- 5.2 VERIFY with the Reliant TDSP that **NO** adverse weather conditions exist in the areas of our offsite power supplies that challenge the stability of grid. _____
- 5.3 ENSURE Prerequisites Section has been completed. _____
- 5.4 ENSURE Notes and Precautions Section has been reviewed. _____
- 5.5 IF the planned entry will make an SDG INOPERABLE, THEN ENSURE that all redundant equipment required by Technical Specification 3.8.1.1 Action d [ITS 3.8.1 Required Action B.2] is OPERABLE. _____
- 5.6 PERFORM a Pre-Job Briefing with applicable watchstanders as designated by the Shift Supervisor (Refer to Addendum 1). _____

	0POP01-ZO-0006	Rev. 13	Page 7 of 30
Extended Allowed Outage Time			

Initials

NOTE

- AEP/CPL TDSP phone number: 1-877-269-1988, alternate: 1-877-449-7154
- Reliant TDSP contacted via the TDSP ring down line.
- The information in Step 5.7 SHALL **NOT** be posted on the WEB. Rule of thumb - WE should not be giving out information on the WEB that gives indication to the status of the switchyard. Line outage (especially outages that involve the W A Parish & Dow/Velasco lines) information is valuable information that can translate to real dollars (gain and/or loss) to our owners. Switching information about STP switchyard should only be directed to TDSP for Reliant. Switching information for the 138kv system should only be directed to AEP/CPL TDSP.
- The requirements laid out in the owners communication plan is solely for unit generation information directed to the QSE's. The W A Parish & Dow/Velasco lines are considered a **commercially significant corridors** by ERCOT. This means the power flows from southern ERCOT zone to the Houston zone is such that any line outage would result in major power flow restrictions and the rerouting of power throughout the state.

5.7 ENSURE the Unit or Shift Supervisor has notified the TDSP's of the following:

5.7.1 NOTIFY the AEP/CPL TDSP that STP has/will be entering a special maintenance condition requiring the following restrictions:

5.7.1.1 The 138KV Blessing to STP AND Lane City to Bay City lines SHALL be in service during this maintenance condition. (Reference 9.20).

5.7.1.2 Maintenance on the 138KV Blessing to STP AND Lane City to Bay City lines SHALL be prohibited during this special maintenance condition (Reference 9.20).

5.7.1.3 IF status of the 138KV Blessing to STP OR Lane City to Bay City lines change, THEN the STP Unit or Shift Supervisor SHALL be informed.

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 8 of 30
Extended Allowed Outage Time			

Initials

- 5.7.2 NOTIFY the Reliant TDSP that STP has/will be entering a special maintenance condition requiring the following restrictions:
- 5.7.2.1 Maintenance activities in the STP switchyard SHALL be prohibited unless scheduled per the STP Work Process Program, 0PGP03-ZA-0090 (Reference 9.7). _____
- 5.7.2.2 IF status of the STP switchyard change, THEN the STP Unit or Shift Supervisor SHALL be informed. _____
- 5.8 SIGN on FORM 1 that the activities in Step 5.7 have been verified. PERFORM FORM 1 at least once per shift (Reference 9.20). _____
- 5.9 REVIEW the Approved Work Schedule for the period during the EAOT to ENSURE the following:
- 5.9.1 ENSURE the Work Schedule contains **NO** planned maintenance on required systems, subsystems, trains, components, and devices that depend on the remaining trains of SDGs as a source of emergency power (Reference Technical Specification 3.8.1.1 Action d [ITS 3.8.1 Required Action B.2])). _____
- 5.9.2 IF entering an EAOT for a MDAFW pump, THEN ENSURE the Work Schedule contains **NO** planned maintenance on required systems, subsystems, trains, components, and devices that depend on or effects the remaining trains of MDAFW pump trains. (Reference Technical Specification 3.7.1.2) _____
- 5.9.3 ENSURE the Work Schedule contains **NO** planned maintenance activities in the switchyard which could directly cause a Loss Of Offsite Power event. Maintenance activities identified after EAOT which are required to ensure the continued reliability and availability of the offsite power sources are permitted. _____
- 5.9.4 IF in Mode 1, 2, or 3, THEN VERIFY the Work Schedule contains **NO** planned maintenance on the Steam-Driven Auxiliary Feedwater Pump. _____
- 5.9.5 IF entering an EAOT for a MDAFW pump, THEN ENSURE the Work Schedule contains **NO** planned maintenance, which would result in the Essential Cooling Water system and the systems it supports being declared non-functional. (Reference Technical Specification 3.7.1.2) _____

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 9 of 30
Extended Allowed Outage Time			

Initials

- 5.9.6 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on the TSC DG. _____
- 5.9.7 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on the PDP. _____
- 5.9.8 ENSURE the Work Schedule contains **NO** planned maintenance that would result in an INOPERABLE **OPEN** containment penetration. _____
- 5.9.9 ENSURE the Work Schedule contains **NO** planned maintenance on SWGR 1L(2L) or 1K(2K). _____
- 5.9.10 ENSURE the Work Schedule contains **NO** planned maintenance on the 138KV Emergency Transformer. _____
- 5.9.11 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on Load Center 1W(2W). _____
- 5.9.12 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on MCC 1G8(2G8). _____

NOTE

Step 5.10 verifies ESF Power Availability prior to allowing entry into the EAOT:

- The circuit between the 138KV offsite transmission network, via the Emergency Transformer, and the onsite Class 1E Distribution System is functional and available.
- The circuits required by Technical Specification LCO 3.8.1.1.a [ITS 3.8.1.a] are operable.

- 5.10 PERFORM 0PSP03-EA-0002, ESF Power Availability (Data Sheets 1, 2, 3 and 8). (Technical Specification 3.8.1.1 Action b [ITS 3.8.1 Required Action B.1]) _____

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 10 of 30
Extended Allowed Outage Time			

Initials

NOTE

The PDP SHALL NOT be functional in Mode 4 per the Plant Cooldown procedure, 0POP03-ZG-0007. (Technical Specification 4.4.9.3.3 [ITS 3.4.12 Bases])

- 5.11 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the TSC DG AND the PDP are functional AND available by performing the following (Reference 9.1):

- | | | |
|----------|--|-------|
| 5.11.1 | REVIEW the OAS for items affecting the TSC DG <u>OR</u> the PDP. | _____ |
| 5.11.2 | REVIEW open ECO's for items that affect the TSC DG <u>OR</u> the PDP. | _____ |
| 5.11.3 | PERFORM one of the following steps to verify the TSC DG functional. N/A step not used: | |
| 5.11.3.1 | VERIFY the TSC DG has had a satisfactory loaded run within the last 60 days (PM 95001570(95003908)). | _____ |
| 5.11.3.2 | PERFORM an automatic start <u>AND</u> loaded run per 0POP07-DB-0005 TSC Diesel Generator Performance Test. | _____ |
| 5.11.4 | PERFORM one of the following steps to verify the PDP functional. N/A step not used: | |
| 5.11.4.1 | VERIFY the PDP has had a satisfactory run within the last 60 days. (PM96000935(96000936)). | _____ |
| 5.11.4.2 | PERFORM a run of the PDP per 0POP07-CV-0001, Positive Displacement Charging Pump Functional Verification. | _____ |

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 11 of 30
Extended Allowed Outage Time			

Initials

5.12 IF in Mode 1, 2, OR 3, THEN VERIFY the Steam-Driven Auxiliary Feedwater Pump OPERABLE by performing the following:

5.12.1 VERIFY 0PSP03-AF-0007, Auxiliary Feedwater Pump 14(24) Inservice Test, is within its required periodicity. _____

5.12.2 IF 0PSP03-AF-0007, Auxiliary Feedwater Pump 14(24) Inservice Test, surveillance is due to be performed AND its End Of Grace Period falls during the planned EAOT, THEN PERFORM 0PSP03-AF-0007, Auxiliary Feedwater Pump 14(24) Inservice Test, prior to EAOT entry. _____

5.12.3 REVIEW OAS to verify the Steam-Driven Auxiliary Feedwater Pump OPERABLE. _____

5.13 IF entering an EAOT for a MDAFW pump, THEN VERIFY the unaffected MDAFW pumps OPERABLE by performing the following:

5.13.1 VERIFY unaffected MDAFW inservice test is within its required periodicity:

- 0PSP03-AF-0001, Auxiliary Feedwater Pump 11(21) Inservice Test _____
- 0PSP03-AF-0002, Auxiliary Feedwater Pump 12(22) Inservice Test _____
- 0PSP03-AF-0003, Auxiliary Feedwater Pump 13(23) Inservice Test _____

5.13.2 IF the unaffected MDAFW pump inservice test is due to be performed AND its End Of Grace Period falls during the planned EAOT, THEN PERFORM the unaffected MDAFW pump inservice test, prior to EAOT entry.

- 0PSP03-AF-0001, Auxiliary Feedwater Pump 11(21) Inservice Test _____
- 0PSP03-AF-0002, Auxiliary Feedwater Pump 12(22) Inservice Test _____
- 0PSP03-AF-0003, Auxiliary Feedwater Pump 13(23) Inservice Test _____

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 12 of 30
Extended Allowed Outage Time			

Initials

5.13.3 REVIEW OAS to verify the unaffected MDAFW pumps OPERABLE.

- Auxiliary Feedwater Pump 11(21)
- Auxiliary Feedwater Pump 12(22)
- Auxiliary Feedwater Pump 13(23)

5.14 ENSURE Containment Integrity by performing the following:

5.14.1 VERIFY 0PSP03-SI-0016, Containment Integrity Checklist, is within required periodicity.

5.14.2 IF 0PSP03-SI-0016, Containment Integrity Checklist, is due to be performed AND its End Of Grace Period falls within the planned EAOT, THEN PERFORM 0PSP03-SI-0016, Containment Integrity Checklist, prior to EAOT entry.

5.14.3 REVIEW the OAS for outstanding containment integrity issues.

EXAMPLE:

An INOPERABLE OPEN containment penetration under Technical Specification 3.6.3 Action a [ITS 3.6.3 Condition A], is **NOT** acceptable.

An isolated containment penetration under Technical Specification 3.6.3 Action b or Action c [ITS 3.6.3 Condition A] **IS** acceptable.

5.14.4 VERIFY current plant status indicates that containment integrity is met by observing control board indication and ESF Status Monitoring indication.

	0POP01-ZO-0006	Rev. 13	Page 13 of 30
Extended Allowed Outage Time			

Initials

5.15 VERIFY containment purge valves OPERABLE by performing the following:

5.15.1 VERIFY 0PSP03-XC-0002A, Partial Containment Inspection (Containment Integrity Established), is within required periodicity. _____

5.15.2 IF the normal monthly containment inspection surveillance required by 0PSP03-XC-0002A is due to be performed AND its End Of Grace Period falls within the planned EAOT, THEN PERFORM 0PSP03-XC-0002A, Partial Containment Inspection (Containment Integrity Established), prior to entering EAOT. _____

5.15.3 REVIEW OAS to verify containment purge valves OPERABLE. _____

5.15.4 VERIFY current plant status indicates that containment purge valves are operable by observing control board indication and ESF Status Monitoring indication. _____

5.15.5 ENSURE protected train signs are placed on the trains not involved in an EAOT. _____

5.16 OBTAIN Shift Supervisor's approval to enter the EAOT. _____

_____/_____
Shift Supervisor Date / Time

	0POP01-ZO-0006	Rev. 13	Page 14 of 30
Extended Allowed Outage Time			

Initials

6.0 Planned Entry

Unit _____ Date/Time _____ Train/Equip. requiring EAOT Entry: _____

6.1 ENTER the EAOT. _____

6.2 ENSURE 0PSP03-EA-0002, ESF Power Availability, is performed within 1 hour of the Technical Specification LCO entry AND per 0PSP03-ZQ-0028, Operator Logs. _____

6.3 WHEN any equipment included in the scope of the Configuration Risk Management Program becomes functional OR non-functional, THEN update and review the weekly risk profiles in accordance with the Configuration Risk Management Program (Reference 9.9) _____

NOTE

The PDP SHALL NOT be functional in Mode 4 per the Plant Cooldown procedure, 0POP03-ZG-0007 (Technical Specification 4.4.9.3.3 [ITS 3.4.12 Bases])

6.4 IF any of the following equipment becomes INOPERABLE OR NON-FUNCTIONAL, THEN PERFORM Step 6.5:

- Circuits required by Technical Specification LCO 3.8.1.1.a [ITS 3.8.1.a].
- Remaining two onsite power sources required by Technical Specification 3.8.1.1 Action b [ITS 3.8.1 Action b].
- Equipment specified by Technical Specification 3.8.1.1 Action d [ITS 3.8.1 Required Action B.2].
- Two supporting Essential Cooling Water loops required by Technical Specification LCO 3.7.4 [ITS 3.7.8].
- Circuit between the 138KV offsite transmission network, via the Emergency Transformer, and the onsite Class 1E Distribution System.
- 138KV line from Blessing to STP OR the 138KV line from Lane City to Bay City (both must be in service) (Reference 9.20).
- TSC DG if entering an EAOT for SDG, ECW, OR Essential Chilled Water systems.
- PDP if entering an EAOT for SDG, ECW, OR Essential Chilled Water systems.
- Remaining AFW pumps if entering EAOT for a MDAFW pump.

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 15 of 30
Extended Allowed Outage Time			

Initials

6.5 IF any applicable equipment in Step 6.4 becomes INOPERABLE OR NON-FUNCTIONAL during the EAOT, THEN PERFORM the following, OTHERWISE N/A the following substeps:

6.5.1 REVIEW the Technical Specifications, Technical Requirements Manual and the Offsite Dose Calculation Manual to ensure that other affected actions are complied with. _____

6.5.2 PERFORM an update and review of the weekly risk profiles in accordance with the Configuration Risk Management Program. _____

6.5.3 ENSURE a Control Room Logbook entry documents the results of the updated risk profile (Reference 9.9). _____

6.5.4 TAKE compensatory measures in accordance with the Configuration Risk Management Program as approved by the Shift Supervisor (Reference 9.9). _____

6.5.5 ENSURE a Control Room Logbook entry documents the compensatory measures taken in Step 6.5.4. _____

	0POP01-ZO-0006	Rev. 13	Page 16 of 30
Extended Allowed Outage Time			

Initials

7.0 Unplanned Entry

Unit _____ Date/Time _____ Train/Equip. requiring EAOT Entry: _____

7.1 ENSURE Prerequisites have been met. _____

7.2 ENSURE 0PSP03-EA-0002, ESF Power Availability, is performed within 1 hour of the Technical Specification LCO entry AND per 0PSP03-ZQ-0028, Operator Logs. _____

7.3 ENSURE Notes and Precautions Section has been read. _____

7.4 PERFORM a briefing with applicable watchstanders as designated by the Shift Supervisor (Refer to Addendum 1). _____

NOTE

IF the conditions of Step 7.5 ARE NOT met, THEN the EAOT may be entered. However, the conditions of Step 7.5 SHALL be met as soon as practical if the EAOT is entered.

7.5 ATTEMPT to establish the following conditions:

7.5.1 VERIFY that the station is **NOT** under hurricane, tornado, OR flood watches OR warnings. (Reference 0POP04-ZO-0002, Natural or Destructive Phenomena Guidelines) _____

7.5.2 Verify the following equipment OPERABLE:

7.5.2.1 Circuits required by Technical Specification LCO 3.8.1.1.a [ITS 3.8.1.a]. _____

7.5.2.2 Remaining two onsite power sources required by Technical Specification 3.8.1.1 Action b [ITS 3.8.1 Action b]. _____

7.5.2.3 Equipment specified by Technical Specification 3.8.1.1 Action d [ITS 3.8.1 Required Action B.2]. _____

7.5.2.4 Two supporting Essential Cooling Water loops required by Technical Specification 3.7.4 [ITS 3.7.8]. _____

	0POP01-ZO-0006	Rev. 13	Page 17 of 30
Extended Allowed Outage Time			

Initials

7.5.2.5 IF in Mode 1, 2, or 3, THEN VERIFY the Steam-Driven Auxiliary Feedwater Pump OPERABLE by performing the following:

- a. VERIFY 0PSP03-AF-0007, Auxiliary Feedwater Pump 14(24) Inservice Test is within its required periodicity. _____
- b. REVIEW the OAS to verify the Steam-Driven Auxiliary Feedwater Pump OPERABLE. _____

7.5.2.6 IF entering an EAOT for a MDAFW pump, THEN VERIFY the unaffected MDAFW pumps OPERABLE by performing the following:

- a. VERIFY unaffected MDAFW pump inservice test is within its required periodicity:
 - 0PSP03-AF-0001, Auxiliary Feedwater Pump 11(21) Inservice Test _____
 - 0PSP03-AF-0002, Auxiliary Feedwater Pump 12(22) Inservice Test _____
 - 0PSP03-AF-0003, Auxiliary Feedwater Pump 13(23) Inservice Test _____
- b. REVIEW OAS to verify the unaffected MDAFW pumps OPERABLE. _____
 - Auxiliary Feedwater Pump 11(21) _____
 - Auxiliary Feedwater Pump 12(22) _____
 - Auxiliary Feedwater Pump 13(23) _____

	0POP01-ZO-0006	Rev. 13	Page 18 of 30
Extended Allowed Outage Time			

Initials

NOTE

- AEP/CPL TDSP phone number: 1-877-269-1988, alternate: 1-877-449-7154
- Reliant TDSP contacted via the TDSP ring down line.
- The information in Step 7.6 SHALL **NOT** be posted on the WEB. Rule of thumb - WE should not be giving out information on the WEB that gives indication to the status of the switchyard. Line outage (especially outages that involve the W A Parish & Dow/Velasco lines) information is valuable information that can translate to real dollars (gain and/or loss) to our owners. Switching information about STP switchyard should only be directed to TDSP for Reliant. Switching information for the 138kv system should only be directed to AEP/CPL TDSP.
- The requirements laid out in the owners communication plan is solely for Unit Generation information directed to the QSE's. The W A Parish & Dow/Velasco lines are considered a **commercially significant corridors** by ERCOT. This means the power flows from southern ERCOT zone to the Houston zone is such that any line outage would result in major power flow restrictions and the rerouting of power throughout the state.

7.6 ENSURE the Unit or Shift Supervisor has notified the TDSP's of the following:

7.6.1 NOTIFY the AEP/CPL TDSP that STP has entered a special maintenance condition requiring the following restrictions:

7.6.1.1 The 138KV Blessing to STP AND Lane City to Bay City lines SHALL be in service during this maintenance condition. (Reference 9.20).

7.6.1.2 Maintenance on the 138KV Blessing to STP AND Lane City to Bay City lines SHALL be prohibited during this special maintenance condition (Reference 9.20).

7.6.1.3 IF status of the 138KV Blessing to STP OR Lane City to Bay City lines change, THEN the STP Unit or Shift Supervisor SHALL be informed.

This procedure, when completed, SHALL be retained for five years.

	OPOP01-ZO-0006	Rev. 13	Page 19 of 30
Extended Allowed Outage Time			

Initials

7.6.2 NOTIFY the Reliant TDSP that STP has entered a special maintenance condition requiring the following restrictions:

7.6.2.1 Maintenance activities in the STP switchyard SHALL be prohibited unless scheduled per the STP Work Process Program, OPGP03-ZA-0090 (Reference 9.7).

7.6.2.2 IF status of the STP switchyard change, THEN the STP Unit or Shift Supervisor SHALL be informed.

7.6.3 SIGN on Form 1 that the activities in Step 7.6 have been verified. PERFORM FORM 1 at least once per shift (Reference 9.20).

NOTE

The PDP SHALL NOT be functional in Mode 4 per the Plant Cooldown procedure, OPOP03-ZG-0007 (Technical Specification 4.4.9.3.3 [ITS 3.4.12 Bases])

7.6.4 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the TSC DG AND the PDP are functional AND available by performing the following: (Reference 9.1)

7.6.4.1 REVIEW the OAS for items affecting the TSC DG OR the PDP.

7.6.4.2 REVIEW open ECO's for items that affect the TSC DG OR the PDP.

7.6.4.3 VERIFY the TSC DG has had a satisfactory loaded run within the last 60 days (PM95001570(95003908)).

7.6.4.4 VERIFY the PDP has had a satisfactory run within the last 60 days. (PM96000935(96000936)).

	OPOP01-ZO-0006	Rev. 13	Page 20 of 30
Extended Allowed Outage Time			

Initials

7.6.5 REVIEW the Approved Work Schedule for the expected duration of the unplanned EAOT to ENSURE the following:

- 7.6.5.1 ENSURE the Work Schedule contains **NO** planned maintenance on required systems, subsystems, trains, components, and devices that depend on the remaining train SDGs as a source of emergency power (Reference Technical Specification 3.8.1.1 Action d [ITS 3.8.1 Required Action B.2]).
- 7.6.5.2 ENSURE the Work Schedule contains **NO** planned maintenance activities in the switchyard which could directly cause a Loss Of Offsite Power event unless required to ensure the continued reliability and availability of the offsite power sources.
- 7.6.5.3 IF in Mode 1, 2, or 3, THEN VERIFY the Work Schedule contains **NO** planned maintenance on the Steam-Driven Auxiliary Feedwater Pump.
- 7.6.5.4 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on the TSC DG.
- 7.6.5.5 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on the Positive Displacement Charging Pump.
- 7.6.5.6 ENSURE the Work Schedule contains **NO** planned maintenance that would result in an INOPERABLE OPEN containment penetration.
- 7.6.5.7 ENSURE the Work Schedule contains **NO** planned maintenance on SWGR 1L(2L) OR 1K(2K).
- 7.6.5.8 ENSURE the Work Schedule contains **NO** planned maintenance on the 138KV Emergency Transformer.
- 7.6.5.9 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on Load Center 1W(2W).
- 7.6.5.10 IF entering an EAOT for SDG, ECW, OR Essential Chilled Water systems, THEN ENSURE the Work Schedule contains **NO** planned maintenance on MCC 1G8(2G8).

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 21 of 30
Extended Allowed Outage Time			

Initials

- 7.6.6 ENSURE Containment Integrity by performing the following:
- 7.6.6.1 VERIFY 0PSP03-SI-0016, Containment Integrity Checklist, is within required periodicity. _____
- 7.6.6.2 REVIEW the OAS for outstanding containment integrity issues.
- EXAMPLE:
- An INOPERABLE OPEN containment penetration under Technical Specification 3.6.3 Action a [ITS 3.6.3 Condition A], is **NOT** acceptable.
- An isolated containment penetration under Technical Specification 3.6.3 Action b or Action c [ITS 3.6.3 Condition A] **IS** acceptable. _____
- 7.6.6.3 VERIFY current plant status indicates that containment integrity is met by observing control board indication and ESF Status Monitoring indication. _____
- 7.6.7 VERIFY containment purge valves OPERABLE by performing the following:
- 7.6.7.1 VERIFY 0PSP03-XC-0002A, Partial Containment Inspection (Containment Integrity Established), is within required periodicity. _____
- 7.6.7.2 REVIEW OAS to verify containment purge valves OPERABLE. _____
- 7.6.7.3 VERIFY current plant status indicates that containment purge valves are OPERABLE by observing control board indication OR ESF Status Monitoring indication. _____

	0POP01-ZO-0006	Rev. 13	Page 22 of 30
Extended Allowed Outage Time			

Initials

- 7.7 IF any condition from Step 7.5 can **NOT** be met, THEN PERFORM the following:
- 7.7.1 RECORD the condition(s) which are **NOT** met from Step 7.5 in the Control Room Logbook. _____
- 7.7.2 NOTIFY the Duty Plant Manager. _____
- 7.7.3 TAKE compensatory measures in accordance with the Configuration Risk Management Program as approved by the Shift Supervisor (Reference 9.9). _____
- 7.8 IF any equipment in Step 7.5 becomes INOPERABLE OR NON-FUNCTIONAL during the EAOT, THEN PERFORM the following, OTHERWISE N/A the following substeps: _____
- 7.8.1 REVIEW the Technical Specifications, Technical Requirements Manual and the Offsite Dose Calculation Manual to ensure that other actions are complied with. _____
- 7.8.2 PERFORM an update and review of the weekly risk profiles in accordance with the Configuration Risk Management Program (Reference 9.9). _____
- 7.8.3 ENSURE a Control Room Logbook entry documents the results of the updated risk profile. _____
- 7.8.4 TAKE compensatory measures in accordance with the Configuration Risk Management Program as approved by the Shift Supervisor. (Reference 9.9). _____
- 7.8.5 ENSURE a Control Room Logbook entry documents the compensatory measures taken in Step 7.8.4. _____
- 7.9 ENSURE protected train signs are placed on the trains not involved in an EAOT. _____

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 23 of 30
Extended Allowed Outage Time			

Initials

NOTE

AEP/CPL TDSP phone number: 1-877-269-1988, alternate: 1-877-449-7154

Reliant TDSP contacted via the TDSP ring down line.

8.0 Restoration

8.1 WHEN the EAOT has been exited, THEN PERFORM the following:

- 8.1.1 INFORM the AEP/CPL TDSP that the STP critical maintenance has been completed and the 138KV Blessing to STP AND Lane City to Bay City lines are no longer restricted by STP. _____
- 8.1.2 INFORM the Reliant TDSP that the STP critical maintenance has been completed and maintenance activities in the STP Switchyard are no longer restricted by STP.
- 8.1.3 ENSURE removed the protected train signs that were placed on the trains not involved in an EAOT. (Refer to Addendum 2 for locations) _____
- 8.1.4 REVIEW procedure package to ensure all required sections are complete.

_____/_____
Shift/Unit Supervisor Date / Time

	0POP01-ZO-0006	Rev. 13	Page 24 of 30
Extended Allowed Outage Time			

9.0 References

- 9.1 ST-AE-HL-94678, SOUTH TEXAS PROJECT UNIT 1 AND 2 - AMENDMENT NOS. 85 AND 72 TO FACILITY OPERATING LICENSE NOS. NPF-76 AND NPF-80
- 9.2 ST-HS-HS-35345, Compensatory Actions Implementation for Extended AOT in Amendments 85 and 72
- 9.3 NOC-AE-01001196 Proposed Amendment to Technical Specification 3.7.1.2
- 9.4 NOC-AE-02001341 Response to Request for Additional Information
- 9.5 04-1298-2, Containment purges during an EAOT
- 9.6 0PGP03-ZA-0104, Switchyard Access and Control of Vehicles Near Electrical Power Components
- 9.7 0PGP03-ZA-0090, Work Process Program
- 9.8 0POP04-ZO-0002, Natural or Destructive Phenomena Guidelines
- 9.9 0PGP03-ZA-0091, Configuration Risk Management Program
- 9.10 0POP03-ZG-0007, Plant Cooldown
- 9.11 0POP07-CV-0001, Positive Displacement Charging Pump Functional Verification
- 9.12 0PSP03-ZQ-0028, Operator Logs
- 9.13 0PSP03-AF-0001, Auxiliary Feedwater Pump 11(21) Inservice Test
- 9.14 0PSP03-AF-0002, Auxiliary Feedwater Pump 12(22) Inservice Test
- 9.15 0PSP03-AF-0003, Auxiliary Feedwater Pump 13(23) Inservice Test
- 9.16 0PSP03-AF-0007, Auxiliary Feedwater Pump 14(24) Inservice Test
- 9.17 0PSP03-XC-0002A, Partial Containment Inspection (Containment Integrity Established)
- 9.18 0POP07-DB-0005, TSC Diesel Generator Performance Test

This procedure, when completed, SHALL be retained for five years.

	0POP01-ZO-0006	Rev. 13	Page 25 of 30
Extended Allowed Outage Time			

9.19 Technical Specifications:

9.19.1 Technical Specification 3.7.1.2

9.19.2 Technical Specification 3.7.4 [ITS 3.7.8]

9.19.3 Technical Specification 3.7.14 [ITS 3.7.10]

9.19.4 Technical Specification 3.8.1.1 [ITS 3.8.1]

9.19.5 Technical Specification 4.4.9.3.3 [ITS 3.4.12 Bases]

9.19.6 Technical Specification 6.8.3.k [ITS 5.5.17]

9.20 CREE 96-9996 Capability of the Emergency Transformer

10.0 Support Documents

10.1 Addendum 1, Extended Allowed Outage Time Briefing Sheet

10.2 Addendum 2, Extended Allowed Outage Sign Locations

10.3 Form 1, 138KV Line Verification

	0POP01-Z0-0006	Rev. 13	Page 26 of 30
Extended Allowed Outage Time			
Addendum 1	Extended Allowed Outage Time Briefing Sheet		Page 1 of 2

- 1.0 ENSURE that as a minimum the following is included in the Pre-Job Briefing prior to voluntary entry into an EAOT AND during shift turnover briefing.
- 2.0 Copies of this Extended Allowed Outage Time Briefing Sheet SHALL be attached to the Shift/Unit Supervisor turnover sheets AND/OR included in the Night Orders Book as determined by the Shift Supervisor during the EAOT.
 - Containment purges SHALL be strictly controlled and of short duration. Normally containment purges should only be required for pressure control. Although not prohibited during the EAOT, containment purges for ALARA and respirable air quality considerations for personnel entry and for surveillance tests should be planned for periods other than during the EAOT.
 - Local operator action may be required to reduce CCW loads, in the event offsite power is lost and only one CCW pump is available, by isolating the non-essential headers. (Reference 0POP09-AN-02M3 and 0POP09-AN-02M4 for CCW HX OUTL FLOW HI/LO and CCW HX OUTL PRESS LO alarms)
 - Maintenance activities in the switchyard that could directly cause a loss of offsite power event SHALL be prohibited unless required to ensure continued reliability and availability of offsite power sources.
 - Maintenance activities which could result in an INOPERABLE OPEN containment penetration SHALL be prohibited.
 - Remain aware of any potential severe weather conditions that may result in an extended loss of offsite power.

This procedure, when completed, SHALL be retained for five years.

	0POP01-Z0-0006	Rev. 13	Page 27 of 30
Extended Allowed Outage Time			
Addendum 1	Extended Allowed Outage Time Briefing Sheet		Page 2 of 2

3.0 The following equipment must remain operable (Technical Specification) OR functional (Non-Technical Specification):

- The circuits required by Technical Specification LCO 3.8.1.1.a [ITS 3.8.1.a].
- The remaining two onsite power sources required by Technical Specification 3.8.1.1 Action b [ITS 3.8.1 Action b].
- The equipment specified in Technical Specification 3.8.1.1 Action d [ITS 3.8.1 Required Action B.2].
- The two supporting Essential Cooling Water loops required by Technical Specification 3.7.4 [ITS 3.7.8].
- The circuit between the 138KV offsite transmission network, via the Emergency Transformer, and the onsite Class 1E Distribution System.
- The 138KV line from Blessing to STP AND the 138KV line from Lane City to Bay City (both must be in service).
- TSC DG if entering an EAOT for SDG, ECW, OR Essential Chilled Water systems.
- PDP if entering an EAOT for SDG, ECW, OR Essential Chilled Water systems.
- Remaining AFW pumps if entering EAOT for a MDAFW pump.

4.0 ENSURE 0PSP03-EA-0002, ESF Power Availability, is performed within 1 hour of the Technical Specification LCO entry AND per 0PSP03-ZQ-0028, Operator Logs.

	OPOP01-Z0-0006	Rev. 13	Page 28 of 30
Extended Allowed Outage Time			
Addendum 2	Extended Allowed Outage Sign Locations		Page 1 of 1

List is a Recommended List and **NOT** a Requirement

CAUTION

When hanging signs, Do **NOT** obscure HP or Safety postings with EAOT signs.

EQUIPMENT	SIGN LOCATION	# OF SIGNS	Installed	Removed
Gatehouses	On doors into both gatehouses.	2 per gatehouse		
ECW Structure	On doors to applicable trains	3 per train		
Standby Transformers	On chain around U-1 Stby Xfmr	4		
	On chain around U-2 Stby Xfmr	4		
13.8 Switchgear	On doors to U-1 Swgr Rm.	2		
	On doors to U-2 Swgr Rm	2		
ESF Transformers	On chain around applicable Xfmrs	5		
Main/Auxiliary Transformers (if in-service)	On chain around Xfmrs	2 on north side 2 on west side 2 on south side		
<u>IF</u> EAOT other than MDAFW pump, <u>THEN</u> TSC DG	On doors to DG Rm	2		
<u>IF</u> MDAFW pump EAOT, <u>THEN</u> MDAFW pumps	On doors to unaffected MDAFW Pump Cubicles	4		
AFW Pump 14(24)	On doors to Pump Cubicle	2		
ESF DG	On south end 55' door to applicable DG	1 per DG		
	On north end 55' security entrance to applicable DG	1 per DG		
ESF Sequencers	On door to applicable room	1 per train		
<u>IF</u> EAOT other than MDAFW pump, <u>THEN</u> 83' EL EAB TSC	On doors to Penthouse	2		
4.16 KV ESF SWGR	On doors to applicable trains	3 or 4 per train		
Class 1E 125VDC Room	On doors to applicable room	2 or 3 depending on which train		
Class 1E 125VDC Battery Room	On doors to applicable room	2 per train		
EAB Penetration	On doors to applicable trains	2 or 3 depending on which train		
<u>IF</u> EAOT other than MDAFW pump, <u>THEN</u> PDP	On door to PDP, MAB 10', Rm 037	1		
CVCS Charging Pump & Valve Rooms	On door to pump and low pressure and high pressure valve rooms	3 per pump		
CCW Pump and Hx Rooms	On doors to pump room	2 or 3 depending on which train		
	On doors to Hx room (1)	5		
	On west door to valve room on 29'	1		
ECCS Trains	Across entry to applicable trains	1 per train		
Switchyard	**	**		

** Switchyard signs (7 gates) will be taken care of by switchyard coordinator.

(1) Do not hang a sign across the NW door in the CCW HX room. There is low hanging pipe support that could be blocked by the sign. Use a magnetic sign on the door.

This procedure, when completed, SHALL be retained for five years.

	0POP01-Z0-0006	Rev. 13	Page 30 of 30
Extended Allowed Outage Time			
Form 1	138KV Line Verification		Page 2 of 2

UNIT 1

(Circle Unit Performing Test)

UNIT 2

DATE	TIME	138KV Blessing To STP Line	138KV Lane City To Bay City Line	TDSP Notified of Step 5.7/7.6 requirements	NAME Signature/Print