

EQUIPMENT ABANDONED VIA OPERATIONAL CONFIGURATION CHANGE

1. PURPOSE

- 1.1. This procedure provides the method to address clearances to be considered for abandonment identified by the Clearance Coordinator per OP-AA-109-101-1002.
- 1.2. This procedure provides the method to permanently abandon plant equipment via Document Change Request (DCR) for equipment abandoned via operational configuration change or to determine other appropriate means to address the existing clearance order.
- 1.3. This method utilizes or refers to other existing procedures, where appropriate, to achieve an acceptable equipment abandonment condition.

2. TERMS AND DEFINITIONS

- 2.1. **Equipment Abandoned via Operational Configuration Change:** Equipment approved for permanent non-use that is mechanically and/or electrically isolated from functional systems/components using installed plant equipment (e.g. valves, breakers, switches, etc.) but otherwise left in-place without physical changes to the isolated equipment. This may be specific pieces of equipment or a system/subsystem.

Note: Spare equipment is defined here to differentiate it from abandoned equipment. Spare equipment is not isolated from functional systems/components and is therefore not abandoned.

- 2.2. **Spare Equipment:** Installed equipment that is physically connected to the system but no longer performs any specific function. (e. g., A “spare” breaker is no longer used, but is **not** disconnected from its system power and remains functional and available for use.) Predefined surveillances may continue to be performed on spare equipment (e.g. a spare breaker may continue to have preventive maintenance performed in accordance with the predefined surveillance schedule to allow the spare breaker to be used if needed.)

3. **RESPONSIBILITIES**

3.1. **System Manager or designee**

- Evaluates the proposed equipment abandonment to determine the viability and acceptability of permanently maintaining it in the non-use condition implemented by the clearance currently in place.
- Presents the technical, regulatory and business bases for abandoning the equipment to the Plant Health Committee (PHC) for approval.
- Initiates the Configuration Change Package.
- Specifies required preventive maintenance.

3.2. **Design Engineering**

- Supports the System Manager in evaluating the proposed equipment abandonment to determine the viability and acceptability of permanently maintaining it in the non-use condition implemented by the clearance currently in place.
- Approves the DCR for Equipment Abandoned via Operational Configuration Change processed per this procedure and CC-AA-104.

3.3. **Clearance Coordinator**

- Ensures a 50.59 review is performed and an UFSAR update determination is performed within the 90 day timeframe prescribed by OP-AA-109-101-1002.

3.4. **PHC Chairperson**

- Reviews and approves / denies the proposed equipment abandonment, based on the results of the PHC review.

3.5. **Maintenance**

- Performs the maintenance that is required to correct and return the equipment to a functional condition, when required.
- Performs preventative maintenance required on Equipment Abandoned via Operational Configuration Change.
- Performs preventative maintenance required on equipment used to isolate Equipment Abandoned via Operational Configuration Change.

3.6. **Operations**

- Controls and monitors the status of equipment isolated by clearance order and awaiting abandonment, concurrent with the preparation of an abandoned equipment configuration change package.
- Removes any existing equipment clearances for the abandoned equipment once replaced by an approved configuration change package.
- Places abandoned equipment tags and placards on the abandoned equipment.

- Controls Isolation Points for Abandoned Equipment and the associated tags, including those that have been removed to install a TCCP.

4. **MAIN BODY**

NOTE: Use of electronic facsimiles of the forms, tags, and logs described in this procedure is acceptable.

4.1. **Abandoned Equipment Identification** [System Manager]

4.1.1. **RECEIVE** the OP-AA-109-101-1002 prescribed IR identifying equipment to be considered for abandonment.

4.1.2. **ESTABLISH** the reason for abandoning the equipment identified by the Clearance Coordinator per OP-AA-109-101-1002. [Operations]

4.1.3. **EVALUATE** the impact of the equipment abandonment on applicable plant systems.

1. **IDENTIFY** verification/testing required before operational configuration can be considered for approved DCR.

2. **OBTAIN** the verification/test results from appropriate departments.

4.1.4. **If** the abandonment request is determined to be acceptable for system function, **then GO TO** Section 4.2.

4.1.5. **INITIATE** a work order for maintenance to rework/repair the equipment to functional condition and **INFORM** the Clearance Coordinator of the work order number and rework/repair date.

1. **If** applicable, **then ENSURE** a 50.59 review is performed and an UFSAR update determination is performed within the 90 day timeframe prescribed by OP-AA-109-101-1002. [Clearance Coordinator]

4.1.6. **EXIT** this procedure.

4.2. **Abandoned Equipment PHC Review** [System Manager]

4.2.1. **PREPARE** the PHC presentation in accordance with ER-AA-2001.

1. **If** the isolation point is established and controlled by a temporary configuration change package (TCCP) in accordance with CC-AA-112, **then INCLUDE** in the presentation a reminder to the PHC that a DCP is required to make the TCCP permanent. The DCR option will not remove the TCCP.

4.2.2. **PRESENT** the PHC presentation for abandoning the equipment to the PHC.

- 4.2.3. **If** the PHC directs that the equipment should be reworked and returned to meet existing design requirements, **then GO TO** Step 4.1.5.
- 4.2.4. **If** the PHC directs that the equipment should be abandoned as isolated by the existing clearance order, **then GO TO** Step 4.3.
- 4.2.5. **If** the PHC directs that the equipment should be abandoned in a manner other than as isolated by the existing clearance order, **then GO TO** the applicable configuration change process (e.g. CC-AA-103 or CC-AA-112) and develop the product matching PHC direction. **Also, GO TO** Step 4.1.5 and perform using the abandonment as the repair.
- 4.2.6. **If** the PHC directs that the equipment should be repaired and placed back into service, **then GO TO** the applicable configuration change process (e.g. CC-AA-103 or CC-AA-112) and develop the product matching PHC direction. **Also, GO TO** Step 4.1.5 and perform for the repair.
- 4.3. DCR for Equipment Abandoned via Operational Configuration Change [Design Engineering]
- 4.3.1. **PROCESS** a Design Change DCR in accordance with CC-AA-104 to approve the condition of the isolation points as implemented by the clearance as an acceptable permanent condition and the non-use of the isolated equipment as an acceptable permanent condition.

NOTE: Isolation points must utilize components that can be normally manipulated by Operations. Lifted leads, blank flanges, etc. shall not be used as an isolation point unless the clearance order has previously established it as an isolation point.

1. The design summary should consider:
 - Mechanical isolation by installed isolation points e.g., closed and/or locked valves;
 - Electrical isolation by installed isolation points e.g., opening breakers and/or switches;
 - Draining requirements (water and sludge);
 - Equipment lay-up (e.g., establish wet lay-up, dry lay-up, coatings etc.)
 - Potential for gas accumulation
2. **DESCRIBE** the equipment to be abandoned, including Equipment Tag and the reason for its abandonment.
 - A. **If** the abandonment involves a Vendor Owned Skid, **then IDENTIFY** the Vendor name, representative, and phone number for accessibility.

3. **DISCUSS** UFSAR Change requirements per LS-AA-107 with the Clearance Coordinator to align with OP-AA-109-101-1002 requirements.
4. **DESCRIBE** the conditions that must be satisfied to allow removal of the Clearance Tags, including replacement with abandoned equipment isolation point tags. **DOCUMENT**, on Attachment 3, the Equipment Tag, Description, Location, and Position of each Abandoned Equipment and Isolation Point required to reflect the Equipment Abandoned via Operational Configuration Change.
5. **IDENTIFY** all the isolation points for the abandonment and all the equipment approved for permanent non-use on the mark-ups of drawings required by CC-AA-104.
6. **REVISE** equipment data to be consistent with the abandonment isolation position for all equipment used as isolation points. (In PassPort update D031 Panel Norm Position in accordance with CC-AA-313 [Operations])
7. **REVISE** equipment data to indicate equipment is no longer available for use (i.e. abandoned). (In PassPort change status of equipment to INACTIVE)

4.4. Abandoned Equipment Stating [Operations]

- 4.4.1. **REVISE** any operating procedures or checklists that require revision to support the abandonment.
- 4.4.2. **REVISE** any affected Critical Control Room Drawings and post in control room. [Design Engineering]
- 4.4.3. With the assistance of required site departments, **CREATE** the necessary "Isolation Point for Abandoned Equipment Tag" and/or the "Isolation Point for Abandoned Equipment Placard," Attachment 1, and the necessary "Abandoned Equipment Tag" and/or the "Abandoned Equipment Placard," Attachment 2.
- 4.4.4. **RECORD** on the "Isolation Point for Abandoned Equipment Tag" and/or the "Isolation Point for Abandoned Equipment Placard" the information indicated on Attachment 1, and on the "Abandoned Equipment Tag" and/or the "Abandoned Equipment Placard" the information indicated on Attachment 2.
- 4.4.5. **VERIFY** and if necessary, **ENSURE** isolation point positions are consistent with the abandoned equipment tags and the signoff sheet required positions.
- 4.4.6. **PLACE** the "Isolation Point for Abandoned Equipment Tag or Placard" on the isolation points for the abandoned equipment.
- 4.4.7. **PLACE** the "Abandoned Equipment Tag or Placard" on the abandoned equipment as required such that abandoned equipment is clearly defined.

- 4.4.8. **DOCUMENT** appropriate placement of the tag or placard at the isolation points and equipment using the Abandoned Equipment and Isolation Point Signoff Sheet, Attachment 3.

NOTE: The removal of Clearance Cards and Tags shall be performed in accordance with the governing station procedure.

- 4.4.9. **REMOVE** any existing Clearance Cards or Tags, that have been replaced by “Abandoned Equipment Tags” or are no longer required to maintain an out of service boundary in accordance with OP-AA-109-101 or OP-MA-109-101 as applicable.
- 4.4.10. **CREATE/CANCEL** predefined surveillances as necessary to reflect the abandonment. [Maintenance]

4.5. Temporary Alteration of Abandoned Equipment Isolation Points

NOTE: **If** an abandoned equipment isolation point must be moved in order to support a temporary configuration change and the new isolation point is established and controlled in accordance with CC-AA-112, **then** the use of components that cannot be normally manipulated by Operations (i.e., lifted leads, blank flanges, etc.) may be used for the new isolation point.

- 4.5.1. **WHEN** the TCCP has been installed, **REMOVE** any existing “Abandoned Equipment” isolation point tags that have been replaced by the “TCCP tags” and **MAINTAIN** them with the Operations copy of the TCCP.
- 4.5.2. **WHEN** the TCCP has been removed, **OBTAIN** the original “Abandoned Equipment” isolation point tags from the Operations copy of the TCCP and **AFFIX** the tags to the original isolation points.

4.6. Existing Interim Abandoned Equipment Evaluations and Abandoned Equipment Log

This Section is used to address existing Interim Abandoned Equipment Evaluations and Abandoned Equipment Log from CC-AA-109 Revision 3 or prior revision until all Interim Abandoned Equipment Evaluations are closed.

- 4.6.1. On a once every six (6) month frequency, **REVIEW** the “Abandoned Equipment Log” for any open configuration change packages and **CONFIRM** that the abandoned equipment configuration change packages are being processed in accordance with previously established schedules. [Operations]
1. **If** an abandoned equipment configuration change package is not being processed in accordance with previously established schedules, **then ENTER** the corrective action process.

2. **PRESENT** this status to the PHC for disposition.

4.6.2. **CLOSE** an Interim Abandoned Equipment Evaluation by performing the following:

1. Interim tags and labels may have been placed in the field. **ENSURE** the permanent design change addresses leaving the tags in place or removing them. **COMPLETE** the Attribute for the interim change as necessary.
2. Predefined surveillances may have been created or revised. **ENSURE** the permanent design change addresses any changes to these predefines. **COMPLETE** the Attribute for the interim change as necessary.
3. **VERIFY** the appropriate documents (procedures) are either revised or included in the permanent design change.
4. **ENSURE** all Affected Equipment List Revisions are approved in the permanent DCP or DCR and **CANCEL** the Revisions in the Interim Abandonment Evaluation.
5. The permanent change must state that it is clearing the HOLD in the interim change. **After** the permanent DCP is Operations Accepted or the DCR is approved, the HOLD in the interim package can be cleared. The interim change can then be closed.
6. **UPDATE** the WEC-SRO log of abandoned equipment to reflect the issuance of the permanent design change and **REMOVE** the copy of the interim abandonment evaluation from the WEC-SRO files due to completion of the interim abandonment.

5. **DOCUMENTATION**

5.1. Abandoned Equipment and Isolation Point Signoff Sheet, Attachment 3 (maintained as part of the configuration change documentation)

6. **REFERENCES**

- 6.1. CC-AA-103, "Configuration Change Control for Permanent Physical Plant Changes"
- 6.2. CC-AA-104, "Document Change Requests"
- 6.3. CC-AA-112, "Temporary Configuration Changes"
- 6.4. ER-AA-2001, "Plant Health Committee"
- 6.5. LS-AA-104, "Exelon 50.59 Review Process"
- 6.6. OP-AA-109-101, "Clearance and Tagging"

- 6.7. OP-MA-109-101, "Clearance and Tagging"
- 6.8. OP-AA-109-101-1002, "Clearance and Tagging Quarterly Audit"
- 6.9. CC-AA-313, "Control of Equipment Data"

7. **ATTACHMENTS**

- 7.1. Attachment 1, "Sample Isolation Point for Abandoned Equipment Tag or Placard"
- 7.2. Attachment 2, "Sample Abandoned Equipment Tag or Placard"
- 7.3. Attachment 3, "Abandoned Equipment and Isolation Point Signoff Sheet"

ATTACHMENT 1
Sample Isolation Point for Abandoned Equipment Tag or Placard
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ALERT

**ISOLATION POINT FOR
ABANDONED EQUIPMENT**

**THIS DEVICE ISOLATES ABANDONED EQUIPMENT FROM
OPERATIONAL EQUIPMENT.**

EQUIPMENT TAG: _____

NAME OF EQUIPMENT: _____

ISOLATION POSITION: _____

ABANDONED EQUIPMENT EC/ECR NUMBER: _____

ATTACHMENT 2
Sample Abandoned Equipment Tag or Placard
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ALERT

ABANDONED EQUIPMENT

EQUIPMENT TAG: _____

NAME OF EQUIPMENT: _____

ABANDONED EQUIPMENT EC/ECR NUMBER: _____

