Doc No.: PMP-5040-MOD-005

TREATMENT OF INSTALLED ITEMS

Title: NOT REQUIRED FOR PLANT

OPERATION

Alteration Cat.: Minor Revision

CDI/50.59:

PORC Mtg.

No.:

CARB Mtg.

No.:

Admin Hold AR No.: Superceding Proc(s):

Temp Proc Exp Date: Temp Change Exp Date: Temp

Proc/Change

End:

Effective Date: 12/29/2015 12:00:00 AM

Approvals

Rev No.: 005

	Review/Approval Type/Capacity	Date
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Foote, Keith (s007265)	3 Technical Review	12/17/2015 07:57
Wendzel, Regan (s007887)	7 Approval Authority	12/21/2015 09:50

Signature Comments

Approved per Plant Manager, Sam Partin.	

AEP AMERICAN ELECTRIC POWER AEP America's Energy Burner-	PMP-5040-MOD-005	Rev. 5	Page 1 of 7
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Information			
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1 PURPOSE AND SCOPE

- 1.1 This procedure provides guidance and requirements for the disposition of items installed at Cook Nuclear Plant that are no longer needed for present or future plant operation.
- 1.2 This procedure applies to decisions to abandon-in-place, remove, or partially remove/partially abandon unneeded equipment. The implementation of these decisions is governed by the project acceptance and Engineering Change processes.

2 DEFINITIONS AND ABBREVIATIONS

Term	Meaning
Abandon-in-Place	An item (Structure, System, Assembly, component, or part) that is not needed for plant operation or for auxiliary functions either now or in the future, has not been removed from its installed location, and has been disconnected from all functional systems or equipment [Ref. 5.2.1d].
Abandoned	An item (Structure, System, Assembly, Component, or Part) whose intended design function has ceased [Ref. 5.2.1d].

3 DETAILS

3.1 Responsibilities

- 3.1.1 AEPNGG managers are responsible for supporting implementation of and adherence to this procedure within their respective organizations.
- 3.1.2 AENGG groups that have direct oversight responsibility for installed equipment are responsible for identifying when such equipment is no longer needed for current or future plant operation. Typically, this is the responsibility of system engineers within the plant engineering organization but may involve other plant departments where these departments are the recognized owner of the equipment.

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3.2 Requirements

- 3.2.1 Plant equipment shall be maintained functional (procedures required to maintain and operate the equipment shall be in "Approved" status) and retained in design documentation, the UFSAR, and information databases until an Engineering Change (EC) has been approved and implemented to remove or abandon the equipment.
- 3.2.2 Nuclear engineering department personnel will determine or obtain determination regarding whether or not, and how, removals or abandonment should proceed.
- 3.2.3 The project acceptance and Engineering Change processes are used to initiate either the removal or abandonment of installed plant equipment and to obtain management approval for such actions [Ref. 5.1.3].
- 3.2.4 Appropriate tags shall be affixed to all abandoned equipment (e.g., cables, switches) in such a way as to minimize confusion to personnel.
- 3.2.5 Appropriate AEPNGG design documents and information databases, such as the Equipment Database, shall be maintained up-to-date to reflect the equipment record status (e.g., Inactive, Removed, Retired) of abandoned equipment. [Ref PMP-5043-EDB-001, Attachment 2]
- 3.2.6 Removals may be partial (e.g., an instrument can be targeted for removal without necessarily removing its support).
- 3.2.7 Consider criteria in Attachment 15, Abandoned Equipment, of 12-EHP-5040-MOD-009, Engineering Change Reference Guide, and the following criteria during the evaluation process for removal versus abandonment:
 - a. Effect on industrial and personnel safety.
 - b. Potential impacts on operations and maintenance personnel (because abandoned-in-place items such as control switches, gages, or valves may be mistaken for operational devices).
 - c. Cost in terms of radiation exposure.
 - d. Need for occupied space (space is critical in occupied area).
 - e. Cost of general upkeep (e.g., painting, labeling, cleaning).
 - f. Salvage or reuse value versus removal costs.

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- g. Cost of additional supports for partial removal or abandonment of systems.
- 3.2.8 Depending on safety and status control considerations, the formal abandonment and isolation of abandoned equipment may be accomplished as follows:
 - a. Processing a document-only Engineering Change (no field work) and controlling existing isolation devices (e.g., placement of abandoned equipment tags, locked valves, revised procedures and drawings),
 --OR--
 - b. Processing an Engineering Change to authorize field work to disconnect the abandoned equipment from all active systems and equipment (e.g., replacement of valves with blanks, disconnecting or removing power cables and control wiring).
- 3.2.9 Attachment 1, Screen for Abandoned Equipment EC with No Field Work, provides guidance for selecting the appropriate alternative (i.e., Steps 3.2.8a **OR** 3.2.8b).
- 3.2.10 **WHEN** the 'No Field Work' alternative is selected per Steps 3.2.8 and 3.2.9, **THEN** the safety and status control considerations for using existing isolation devices to control the abandoned equipment should be addressed in the EC package, as follows:
 - a. Include and reference in the EC package the completed Attachment 1,
 Screen for Abandoned Equipment EC with No Field Work.
 --OR--
 - b. Incorporate in the EC package information corresponding to responses to the applicable questions in the Attachment 1, Screen for Abandoned Equipment EC with No Field Work.
- 3.2.11 Use PMP-5043-CCD-001, Configuration Change Control, to select the appropriate Engineering Change process to execute removal, abandonment, or partial removal/partial abandonment [Ref. 5.1.1].

4 FINAL CONDITIONS

N/A

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5 REFERENCES

- 5.1 Use References:
 - 5.1.1 PMP-5043-CCD-001, Configuration Change Control
 - 5.1.2 12-EHP-5040-MOD-009, Engineering Change Reference Guide
 - 5.1.3 PMP-1060-RPA-001, Plant Financial Committee Request for Funding Process
- 5.2 Writing References:
 - 5.2.1 Source References:
 - a. CR 97-3251
 - b. PMP-2060-SEC-008, Security Safety Interface
 - c. PMP-5043-EDB-001, Equipment Database
 - d. 1-2-EDS-111, Design Criteria and Documentation of Abandoned and Spare Item

5.2.2 General References

a. AR 2014-2783-8, Engineering Evaluation for abandoned equipment

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Attachment 1	Screen for Abandoned Equipme	ent EC with No Field Work	Pages: 6 - 7
·	T N		
	, Equipment Name:		
installed isolation d	of abandoned equipment from active equipment evices (e.g., valves closed, circuit breakers replacement of clearance tags with Abandon	s open, fuses pulled), through change	
	andoned/active interfaces such as shared flo mon vessels, headers, or compressed air ma		
or electrical) to	rt of a system/sub-system that is being cons perform tests or to back-feed or bypass oth and effectively isolated from the abandone	er systems or components and will n	
Based on the co	nsiderations in 1, 1a, & 1b, can abandon	ment be achieved with No Field W	ork? Yes No
Comments:			
IF the equipment to preventable without	be abandoned involves electrical interface t field work.	s with active equipment, THEN adve	erse impacts MUST be
a. Consider auxilia equipment and v		or abandoned equipment in control ci	rcuits for active
a. Consider auxilia equipment and v pieces of equipment.b. Consider the po	t field work. Ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into	or abandoned equipment in control ci annuniciators or trip circuits that are ized/back-fed by an active circuit and	rcuits for active common to multiple
a. Consider auxilia equipment and v pieces of equipment.b. Consider the poabandoned power	ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. tential for an abandoned circuit to be energy	or abandoned equipment in control ci annuniciators or trip circuits that are ized/back-fed by an active circuit and grounds on active circuits.	rcuits for active common to multiple
a. Consider auxilia equipment and v pieces of equipment.b. Consider the poabandoned power	t field work. ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. tential for an abandoned circuit to be energer or control circuits to become a source of considerations in 2, 2a & 2b, can abandon	or abandoned equipment in control ci annuniciators or trip circuits that are ized/back-fed by an active circuit and grounds on active circuits.	rcuits for active common to multiple d the potential for ork? Yes No
 a. Consider auxilia equipment and v pieces of equipment. b. Consider the po abandoned power. Based on the consideration. 	ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. tential for an abandoned circuit to be energed or control circuits to become a source of considerations in 2, 2a & 2b, can abandon. Aba	or abandoned equipment in control ci annuniciators or trip circuits that are ized/back-fed by an active circuit and grounds on active circuits. ament be achieved with No Field Wandonment does NOT involve electric	rcuits for active common to multiple d the potential for ork? Yes Neal equipment.
 a. Consider auxilia equipment and v pieces of equipment. b. Consider the po abandoned power. Based on the consideration. 	t field work. ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. tential for an abandoned circuit to be energer or control circuits to become a source of considerations in 2, 2a & 2b, can abandon	or abandoned equipment in control ci annuniciators or trip circuits that are ized/back-fed by an active circuit and grounds on active circuits. ament be achieved with No Field Wandonment does NOT involve electric	rcuits for active common to multiple d the potential for ork? Yes Neal equipment. N/A
a. Consider auxilia equipment and varieties of e	ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. tential for an abandoned circuit to be energed or control circuits to become a source of considerations in 2, 2a & 2b, can abandon. Aba	or abandoned equipment in control ci annuniciators or trip circuits that are ized/back-fed by an active circuit and grounds on active circuits. The achieved with No Field Windonment does NOT involve electric on abandoned equipment, isolation de	rcuits for active common to multiple d the potential for ork? Yes N al equipment. N/2
a. Consider auxilia equipment and varieties of equipment and varieties of equipment and varieties of equipment. b. Consider the possible abandoned powers. Based on the construction of	ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. Itential for an abandoned circuit to be energed or control circuits to become a source of considerations in 2, 2a & 2b, can abandon. Abandoned Equipment tags/labels of the contact of Abandoned Equipment tags/labels of the contact of	or abandoned equipment in control citized/back-fed by an active circuit and grounds on active circuits. Inment be achieved with No Field Windonment does NOT involve electric on abandoned equipment, isolation deve in eliminating the following:	rcuits for active common to multiple d the potential for ork? Yes N al equipment. N/2
a. Consider auxilia equipment and varieties of e	ary contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. Itential for an abandoned circuit to be energed or control circuits to become a source of considerations in 2, 2a & 2b, can abandon. Abandoned Equipment tags/labels or or room and local panels MUST be effective.	or abandoned equipment in control citized/back-fed by an active circuit and grounds on active circuits. Inment be achieved with No Field Windonment does NOT involve electric on abandoned equipment, isolation deve in eliminating the following:	rcuits for active common to multiple d the potential for ork? Yes Neal equipment. N/A
a. Consider auxilia equipment and varieties of e	ry contacts of relays or motor contactors for vice versa, or auxiliary contacts wired into ment, some of which will remain active. Itential for an abandoned circuit to be energinger or control circuits to become a source of considerations in 2, 2a & 2b, can abandon. Abandoned Equipment tags/labels of rol room and local panels MUST be effective ainty and error-likely situations with respect	or abandoned equipment in control citized/back-fed by an active circuit and grounds on active circuits. Inment be achieved with No Field Wandonment does NOT involve electric on abandoned equipment, isolation deve in eliminating the following: Extra to configuration control and equipment.	rcuits for active common to multiple d the potential for ork? Yes Neal equipment. N/A

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Attachment 1	Screen for Abandoned Equipme	nt EC with No Field Work	Pages: 6 - 7
	t involves instruments or controls containing adjacent equipment, THEN the batteries ar	-	might leak corrosive
	eries and capacitors from abandoned instrur ONE does NOT categorize the change as "I		as maintenance
Based on the co	onsiderations in 4 & 4a, can abandonmen	t be achieved with No Field Work?	Yes No
	Abando	nment does NOT involve instrument	ts or controls. \square N/A
Comments:			
safety, create source THEN removal ver a. Consider if detering inspection	the abandoned equipment or the isolation dees of foreign matter that will be expensive to usual abandonment with periodic inspections rioration in material condition will require pons and continued maintenance on the abandone memoral	o control, or cause other significant is and continued maintenance may be de- periodic internal inspections, such that	negative impacts, lictated. at the need for periodic
safety, create source THEN removal ver a. Consider if detering inspection expensive than in b. Conversely, conversely, conversely, conversely, conversely.	es of foreign matter that will be expensive to sus abandonment with periodic inspections rioration in material condition will require pons and continued maintenance on the abandremoval. Insider if deterioration can be readily detected inspection and painting, as needed) that add	o control, or cause other significant is and continued maintenance may be de periodic internal inspections, such the doned equipment or isolation devices d and controlled by Preventive Maint	negative impacts, lictated. at the need for periodic s or both will be more tenance tasks
safety, create source THEN removal ver a. Consider if deterinternal inspective expensive than to be conversely, correctly, correctly, periodic in active equipments. c. For valves WIT	es of foreign matter that will be expensive to sus abandonment with periodic inspections rioration in material condition will require pons and continued maintenance on the abandremoval. Insider if deterioration can be readily detected inspection and painting, as needed) that add	o control, or cause other significant is and continued maintenance may be described internal inspections, such the doned equipment or isolation devices and and controlled by Preventive Maintaittle or no expense over that require all of diaphragms that are likely to described.	negative impacts, lictated. at the need for periodic or both will be more tenance tasks d to maintain similar eteriorate can be
safety, create source THEN removal ver a. Consider if deterinternal inspective expensive than to the conversely, correctly, correctly, periodic in active equipments. c. For valves WIT performed as meaning the converse source of	es of foreign matter that will be expensive to sus abandonment with periodic inspections rioration in material condition will require pons and continued maintenance on the abandremoval. Insider if deterioration can be readily detected inspection and painting, as needed) that add to the third that abandonment boundary, the removal.	o control, or cause other significant that and continued maintenance may be described internal inspections, such that doned equipment or isolation devices and and controlled by Preventive Maintailtel or no expense over that require all of diaphragms that are likely to decategorize the change as "EC with find	negative impacts, lictated. at the need for periodic s or both will be more tenance tasks d to maintain similar eteriorate can be field work."
safety, create source THEN removal ver a. Consider if deterinternal inspective expensive than to the conversely, correctly, correctly, periodic in active equipments. b. Conversely, correctly, correctly, periodic in active equipments. c. For valves WIT performed as meaning as meaning the consideration of the control o	es of foreign matter that will be expensive to sus abandonment with periodic inspections rioration in material condition will require pons and continued maintenance on the abandremoval. Insider if deterioration can be readily detected inspection and painting, as needed) that add att. HIN the abandonment boundary, the removal intenance activity that ALONE does NOT	o control, or cause other significant is and continued maintenance may be described internal inspections, such the doned equipment or isolation devices and and controlled by Preventive Maintaittle or no expense over that require all of diaphragms that are likely to decategorize the change as "EC with finent be achieved with No Field Womens and controlled with No Field Womens and controll	negative impacts, lictated. at the need for periodics or both will be more tenance tasks d to maintain similar eteriorate can be field work."

6. Summary/Conclusion

(Print)

IF all the responses for items 1 through 5 are "Yes" or "N/A," **THEN** this system, sub-system, component can be effectively and safely abandoned by processing an EC with No Field Work.

IF any response for items 1 through 5 is "No," **THEN** an EC with Field Work is required to abandon this system, subsystem, component.

☐ EC with No Field Work	☐ EC with Field Work
Comments:	

(Sign)

(Date)

REVISION SUMMARY

Rev. No.: 5 Procedure No.: PMP-5040-MOD-005

Treatment of Installed Items Not Required for Plant Operation Title:

Alteration	Justification
	strative and are subject to the controls of 10 CFR 50 CFR 50.59 and 10 CFR 72.48 are not applicable.
A review of PMP-2060-SEC-007, Request for S procedure does not require a safety/Security Eva	ecurity Impact Review and Evaluation, reveals this luation.
Section 2, meaning of "Abandon-in-Place:" • Deleted "[Ref. 5.2.1c]" • Added "[Ref. 5.2.1d]"	"[Ref. 5.2.1c]" refers to NRC Commitment 7209 that was placed in "Retired" status on 10/17/2013 and is being removed as a source reference "[Ref. 5.2.1d]" refers to 1-2-EDS-111, Design Criteria and Documentation of Abandoned and Spare Item, that is the source reference for the meaning of the term
Section 2: Added meaning of "Abandoned" with "[Ref. 5.2.1c]" the source reference	To provide the meaning of a term used in the procedure and its source reference In support of GT 2015-11175-1
Step 3.1.2: Deleted "[Ref 5.2.1b.]"	Reference 5.2.1b is being removed as a source reference because this record was placed in "Retired" status on 06/06/2011.
	Editorial Correction Criterion: n
Step 3.2.1: Inserted "(procedures required to maintain and operate the equipment shall be in "Approved" status)" after "Plant equipment shall be maintained functional"	As requested in AR 2015-12876-5 and tracked in AR 2015-12876-9
Deleted former Step 3.2.2 (Rev. 4): "Equipment planned for abandonment is not required to meet the requirement of step 3.2.1 to maintain the equipment in a functional status (e.g., it is desirable to keep it out of service or discontinue preventative maintenance tasks) provided the Engineering Change to abandon/remove the equipment is started in INDUS and drafted such that the scope can be adequately identified and a 50.59 Review is completed within 90 days of making this determination. [Ref. 6.2.1d]"	
Step 3.2.1: Replaced "abandon-in-place" with "Abandon" Steps 3.2.2, 3.2.3 and 3.2.7: Replaced	Wording changed to align with 1-2-EDS-111, Design Criteria and Documentation of Abandoned and Spare Item As requested in GT 2015-11175-1
"abandonment-in-place" with "Abandonment" Steps 3.2.4, 3.2.5 and 3.2.10: Replaced "abandoned-in-place" with "Abandoned"	

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REVISION SUMMARY

Procedure No.: PMP-5040-MOD-005 Rev. No.: 5

Title: Treatment of Installed Items Not Required for Plant Operation

Alteration	Justification
 Step 3.2.5: Replaced "configuration status" with "equipment record status (e.g., Inactive, Removed, Retired)" Added "[Ref. PMP-5043-EDB-001, Attachment 2]" at the end of the instruction 	To align terminology with PMP-5043-EDB-001 and reference Attachment 2 of PMP-5043-EDB-001 as the source document In support of GT 2015-11175-1
Deleted former Reference 5.2.1b (Rev. 4): NRC Commitment 7208	NRC Commitment 7208 is being removed as a source reference because this record was placed in "Retired" status on 06/06/2011. Editorial Correction Criterion: n
Deleted former Reference 5.2.1c (Rev. 4): NRC Commitment 7209	NRC Commitment 7209 is being removed as a source reference because this record was placed in "Retired" status on 10/17/2013. Editorial Correction Criterion: n
Deleted former Reference 5.2.1d (Rev. 4): NRC Inspection Report No. 50-315.316, URI- 25, AEP:NRC:1260G2	This reference is identified only in former Step 3.2.2, which is being deleted as requested in AR 2015-12876-5 and tracked in AR 2015-12876-9
Added Reference 5.2.1c: PMP-5043-EDB-001, Equipment Database	This document is shown as a reference in the procedure Editorial Correction Criterion: n
Added Reference 5.2.1d: 1-2-EDS-111, Design Criteria and Documentation of Abandoned and Spare Item	This document is identified as the source reference for the changes requested in GT 2015-11175 Editorial Correction Criterion: n
Attachment 1, Item 4.a.: Replaced "abandoned-in-place" with "Abandoned"	Wording changed to align with 1-2-EDS-111, Design Criteria and Documentation of Abandoned and Spare Item As requested in GT 2015-11175-1

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Approval.	Page 2 of 3

REVISION SUMMARY

Procedure No.: PMP-5040-MOD-005 Rev. No.: 5
Title: Treatment of Installed Items Not Required for Plant Operation

IMPLEMENTATION PLAN

Summary of Change

See Revision Summary.

Reason for Change
See Revision Summary.

*Implementation Schedule*Revision will be effective after receipt of overall approval.

Training Needs
None

Expiration Date N/A

Required Basis Documents Update N/A

Related Processes and Procedures N/A

Transition Plan N/A

Related Equipment Modifications N/A

Communication Plan

An e-mail notification will be distributed to the plant population.

Special Tools, Aids, Permits, Etc. N/A

Related Action Requests

AR 2015-12876 GT 2015-11175

Approval.