

**MRP** Materials Reliability Program \_\_\_\_\_ MRP 2014-006

(via email)

February 18, 2014

To: MRP Technical Advisory Group

Cc: PMMP Executive Committee, MRP Integration Committee, MRP Assessment TAC

Subject: *Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines (MRP-227-A)*, EPRI, Palo Alto, CA: 2011. 1022863, Transmittal of Interim Guidance

References:

1. PWR Owners Group – Material Subcommittee Reactor Internals Guide Tube Wear-Westinghouse Domestic Fleet Operational Projections (WCAP-17451-P, Revision 1), PA-MS-0688
2. PWROG Transmittal Letter OG-14-55 Guidance: Reactor Internals Guide Tube Wear-Westinghouse Domestic Fleet Operational Projections (WCAP-17451-P, Revision 1), PA-MS-0688

The purpose of this letter is inform domestic MRP Technical Advisory Group (TAG) members that the PMMP Executive Committee (EC) has endorsed the attached interim guidance to MRP-227-A reflecting the new recommendations contained in the WCAP-17451-P, Revision 1 (Reference 1). The PWROG Executive Committee (EC) endorsed the recommendations outlined in the WCAP per the NEI 03-08 initiative as transmitted in OG-14-55. As discussed with the MRP technical committees, the recommendations were sent to both the PWROG MSC and the MRP for endorsement and then to the Executive Committee members of both organizations for approval. Reference 1 was provided to the affected MRP-IC members comprising those participating in the project authorization which developed the revised guidance which includes all domestic Westinghouse reactor owner/operators. Reference 2 from the PWROG transmitted the subject document and its requirements to those participants following PWROG EC endorsement.

WCAP-17451-P Revision 1 provides results of a program funded by the Pressurized Water Reactor Owners Group (PWROG) to develop a tool to facilitate prediction of continued operation of reactor upper internals guide tubes from a guide card and lower guide tube continuous guidance wear standpoint, as well as to establish an initial inspection schedule based on the various guide tube designs for the utilities participating in the program. This report is an extension of the technical assessment that supported development of MRP-227-A by employing operating experience and analyses that were not available during development and approval of MRP-227-A. The report contains more comprehensive examination scope alternatives than the 20% sample specified in MRP-227-A. For some CRGT designs, this report requires an examination on an accelerated schedule as compared to that specified in MRP-227-A. In other

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cases, this report provides a technical basis for relaxation of existing MRP-227-A ‘Needed’ category requirements. As a result of these changes, the new NEI 03-08 requirements specified in WCAP-17451-P Revision 1 directly supersede the requirement currently in MRP-227-A.

Interim guidance relative to guide card inspections is thus required so that utilities may use the information provided in the subject report as a basis for modifying the current requirements of MRP-227-A. The only implementable requirement affected in MRP-227-A is the single entry in Table 4-3 for Westinghouse CRGT guide cards (p. 4-26). There are no Expansion component items affected however Table 5-3 (p. 5-15) will be modified to refer to the new examination acceptance criteria. Thus Utilities should modify their CRGT examination plans to adhere to the requirements of WCAP-17451-P Revision 1 or prepare a deviation under the NEI 03-08 protocol. The attached table entries comprise the extent of the interim guidance.

Following approval and issue, any inquiry or deviation from this report would be processed through the PWROG Materials Subcommittee as the responsible industry Issue Program. Appropriate procedures should be followed to make any necessary commitment changes or to file deviations.

Using the above approach rather than referring the requirements and recommendations in this report to the MRP for direct inclusion in the next revision to MRP-227 alleviates several practical problems:

- The new requirements replace the single CRGT table entry in MRP-227-A with comprehensive guidance that technically justifies various options for aging management, has varying baseline examination schedules based on plant/CRGT design and OE, and provides methods for determining re-examination intervals. Thus a comprehensive, stand-alone technical report is a more suitable format to address aging management of these components.
- The process of transferring the document to the MRP and incorporating the requirements into MRP-227 would cause delay in adoption. The new recommendations accelerate initial examination schedules for some plants, thus it is imperative that the guidance be issued without unnecessary delay.
- Inquiries and deviation dispositions to this report would appropriately be routed through the PWROG-MSD, rather than the MRP.
- Any subsequent revision to CRGT examination or evaluation guidance necessitated by operating experience would also be more efficiently addressed with this approach.

The report contains six “needed” elements (**a-f under Section 6.0 of WCAP-17451-P, Revision 1, Reference 1**) as defined by the NEI 03-08 protocol – “needed” elements that must be “implemented wherever possible, but alternative approaches are acceptable”. The endorsement of the needed elements and accompanying MRP interim guidance contained in the enclosed Table edits from MRP-227-A (Enclosure 3) reconciles the new requirements to MRP-227-A. All Westinghouse PWRs currently operating in the U.S are affected by the new requirements as established by the NEI 03-08 protocol. However, as stated in the WCAP: “*No examinations are*

*required prior to 2015. See Section 5. for certain near-term plant exceptions to the generic scheduled that should consider inspections as early as an outage during 2015”.*

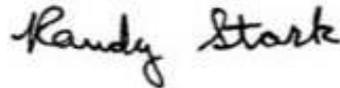
The document has been thoroughly reviewed by the Reactor Internals Core Team, with comments made and incorporated by that group and appropriately routed through the PWROG prime representatives and EMG.

If you have any questions, please do not hesitate to contact MRP IC Chair Tim Wells or Core Team Chair Glenn Gardner.

Regards,



Matt Sunseri, PMMP EC Chair



Randy Stark, EPRI Program Manager

- Enclosures:
1. PWROG letter OG-14-55 transmitting WCAP-17451 Revision 1 to PWROG affected members
  2. Summary of WCAP-17451 Revision 1
  3. MRP-227-A Table edits reflecting interim guidance

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February 17, 2014

OG-14-55

To: PWROG Executive Committee Members

Subject: PWR Owners Group

**Guidance: Reactor Internals Guide Tube Wear-Westinghouse Domestic Fleet Operational Projections (WCAP-17451-P, Revision 1), PA-MS-C-0688**

References: **1. Approval of Needed Requirements: Reactor Internals Guide Tube Wear-Westinghouse Domestic Fleet Operational Projections (WCAP-17451-P, Revision 1), PA-MS-C-0688, OG-13-408, dated December 18, 2013**  
**2. Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines (MRP-227-A), EPRI, Palo Alto, CA: 2011. 1022863, Transmittal of Interim Guidance, MRP 2014-006**

This letter transmits the subject document and starts the implementation schedule. The initial examination measurement generic schedule is outlined in Section 5.4, or if applicable to a utility's plant, Table 5-14 of Enclosure 1. No examinations are required prior to 2015. See Section 5.4 of Enclosure 1 for certain near-term plant exceptions to the generic schedule that should consider inspections as early as an outage during 2015.

As discussed with the PWROG Materials Committee, the recommendations were sent to both the PWROG MSC and the MRP for endorsement and then to the Executive Committee members of both organizations for approval. The guidance has been endorsed by the applicable PWROG (Reference 1) and PMMP utility Executive members. A separate letter providing MRP-227-A interim guidance has been issued by the EPRI MRP under Reference 2.

This document contains six "needed" elements (a-f under Section 6.0 of WCAP-17451-P, Enclosure 1) as defined by the NEI 03-08 protocol – "needed" elements that must be "implemented wherever possible, but alternative approaches are acceptable".

This report provides results of a program funded by the Pressurized Water Reactor Owners Group (PWROG) to develop a tool to facilitate prediction of continued operation of reactor upper internals guide tubes from a guide card and lower guide tube continuous guidance wear standpoint, as well as to establish an initial inspection schedule based on

the various guide tube designs for the utilities participating in this program. This report is an extension of the technical assessment that supported development of MRP-227-A by employing operating experience and analyses that were not available during development and approval of MRP-227-A. This report contains more comprehensive examination scope alternatives than the generic 20% sample specified in MRP-227-A. In some cases, this report requires an examination on an accelerated schedule as compared to that specified in MRP-227-A under NEI 03-08. In other cases, this report provides a technical basis for relaxation of existing MRP-227-A 'Needed' category requirements. As a result of these changes to the current MRP-227-A requirements, it is proposed that the revised NEI 03-08 requirements listed in this report be used directly to supplement or supersede the requirement currently in MRP-227-A. The only implementable requirement affected in MRP-227-A is the single entry in Table 4-3 for Westinghouse CRGT guide cards (p. 4-26 of Enclosure 1). There are no Expansion component items affected however Table 53 (p. 5-15 of Enclosure 1) would be modified to refer to the new examination acceptance criteria.

As outlined in OG-13-408, utilities should modify their CRGT examination plans to adhere to the new requirements of WCAP-17451-P or prepare a deviation under the NEI 03-08 protocol. Utilities are required to enter "needed" guidance issued under NEI 03-08 into their corrective action program in order to review the new or revised guidance against their current implementation plans. Since for some plants examination timelines are moved forward by the requirements in this report, it was recommended in OG-13-408 that an initial impact review be completed by December 31, 2013 in order to determine an appropriate schedule for revising their reactor internals program documentation and inspection plans to facilitate implementation of the new guidance described in the report.

Using the above approach rather than referring the requirements and recommendations in this report to the MRP for inclusion in the next revision to MRP-227 alleviates several practical problems:

1. The new requirements replace the single CRGT guide card table entry in MRP-227-A with comprehensive guidance that technically justifies various options for aging management, has varying baseline examination schedules based on plant/CRGT design and OE, and provides methods for determining re-examination intervals. Thus a comprehensive, stand-alone technical report is a more suitable format to address aging management of these components.
2. The process of transferring the document to the MRP and incorporating the requirements into MRP-227 would cause delay in adoption. The new recommendations accelerate initial examination schedules for some plants, thus it is imperative that the guidance be issued without unnecessary delay.
3. Inquiries and deviation dispositions to this report will be appropriately routed via the PWROG-MSR rather than the MRP.
4. Any subsequent revision to CRGT examination or evaluation guidance necessitated by operating experience will also be more efficiently addressed with this approach.

As such, the new guidance provided in this report applies to any plant under this Owners Group program, whether it is a 'near term' plant where inspections or measurements are 'needed' in the next few years, or to any other plant. In summary, this report can be used as the basis to amend or supplement the utility's aging management or corrective action program without need to work through the MRP, except for any deviation that may result from a more restrictive NEI 03-08 MRP-227 requirement. This report has been forwarded to the MRP for preparation and approval of interim guidance to MRP-227-A and eventual incorporation by reference into the next revision to MRP-227. The interim guidance to be issued by the MRP is intended to eliminate conflicting guidance under the NEI 03-08 initiative and avoid unnecessary deviations. Additionally, the new guidance will be referenced in the next revision to WCAP-17096-NP. The adoption of this process in MRP-227 by either revision of the existing text or reference to this report would serve to consolidate the requirements.

Operational time extension curves are developed and provided in this report to predict when wear-through will occur at a guide card or for determining operational times until other levels of wear occur before wear-through. Sections 4.3 and 4.4 of this report (Enclosure 1) discuss usage of these curves for guide card operational time extension and the methodology for operational time extension for the lower guide tube continuous guidance section. These sections also describe how to determine operational time extension after wear through occurs at one or more guide cards.

Determination of when initial guide tube inspection measurements should be performed is based on a review of numerous foreign material examination videos of guide tube interiors performed at many plants as part of previous guide tube support pin replacement projects and from previous guide tube wear inspections performed for the PWROG. Results of the maximum wear per plant are provided. With these examination results the operational extension curves are used to predict when the first inspections should be performed. These results are discussed in Sections 5.3 and 5.4, and the associated wear criteria are discussed in Section 5.2 (Enclosure 1). A separate utility correspondence will be provided to correlate the plant's alpha designations given in Tables 5-1 through 5-6 to the plant's name (Enclosure 1).

In summary, the main results, procedures, and criteria are provided in the following sections of the report (Enclosure 1):

1. NEI 03-08 'Needed' implementation categories, including options, are outlined in Section 6. An inspection methodology flow chart is also provided.
2. Initial examination measurement generic schedule is outlined in Section 5.4, or if applicable to a utility's plant, Table 5-14. No examinations are required prior to 2015. See Section 5.4 for certain near-term plant exceptions to the generic schedule that should consider inspections as early as an outage during 2015.
3. An optional guide card wear video inspection screening procedure prior to the first measurement examination is outlined in Section 5.5.1.

4. The numbers of guide tubes to inspect are given in Table 5-16 if a minimum of 20 percent of the guide tubes is not allowed per the criteria outlined in Section 5.5.2.
5. The schedule of subsequent wear examination measurements shall be based on the methodology outlined in Sections 4.3 for guide cards using the operational time extension curves in Section 4.2, and Section 4.4 for the continuous guidance section wear, if needed per Section 5.5.2.
6. The wear criteria are given in Tables 5-7, 5-8, and 5-12. The allowable number of worn-through guide cards is listed in Table 5-10. Recommendations to consider and required remedial actions are listed in Tables 5-11 and 5-12 for guide card and continuous guidance section wear.

It is intended, and is currently underway, to summarize the inspection methodology, acceptance criteria, requirements and recommendations from WCAP-17451-P, Revision 1 into WCAP-17096-NP to be shared with the U.S. Nuclear Regulatory Commission staff in order to facilitate acceptance of the new requirements applicable to MRP-227.

The final document will be posted to the PWROG website, and INPO as well as NEI will be notified of the final report.

If you have any questions, please do not hesitate to contact me by email at [njstring@southernco.com](mailto:njstring@southernco.com) or by telephone at (205) 992-7037. You may also contact the Westinghouse Project Manager, Jim Rex ([rexja@westinghouse.com](mailto:rexja@westinghouse.com), or (412) 374-6058 or Jim Molkenthin in the PWROG Project Office ([molkenjp@westinghouse.com](mailto:molkenjp@westinghouse.com), (860) 731-6727.

Regards,



Jack Stringfellow  
Chief Operating Officer & Chairman  
Pressurized Water Reactor Owners Group

NJS:JPM:las

Enclosures (1): WCAP-17451-P, Rev 1 "Reactor Internals Guide Tube Wear-  
Westinghouse Domestic Fleet Operational Projections"

PWROG Executive Committee Representatives  
OG-14-55

cc: PWROG Management Committee Representatives  
PWROG Materials Committee Representatives  
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A. Demma, EPRI  
M. Richter, NEI  
B. Wilson, W  
C. Boggess, W  
K. Amberge, EPRI  
C. Lane, INPO

## Summary of WCAP-1745-P Revision 1

The new guidance provided in the WCAP-17451-P Revision 1 applies to the plants affected by the PWR Owners Group program, i.e. any Westinghouse design operating plant, whether it is a ‘near term’ plant where inspections or measurements are ‘needed’ in the next few years, or to any other plant. In summary, this report can be used as the basis to amend or supplement the utility’s reactor internals aging management plans and procedures via their corrective action program. This report was forwarded to the MRP by the PWROG specifically for endorsement of the revised guidance, for preparation and approval of interim guidance to MRP-227-A and eventual incorporation by reference into the next revision to MRP-227. The interim guidance enclosed in this letter is intended to eliminate conflicting needed elements under the NEI 03-08 initiative and avoid unnecessary deviations and confusion.

Operational time extension curves are developed and provided in this report to predict when wear-through will occur at a guide card or for determining operational times until other levels of wear occur before wear-through. Sections 4.3 and 4.4 of this report discuss usage of these curves for guide card operational time extension and the methodology for operational time extension for the lower guide tube continuous guidance section. These sections also describe how to determine operational time extension after wear through occurs at one or more guide cards.

Determination of when initial guide tube inspection measurements should be performed is based on a review of numerous foreign material examination videos of guide tube interiors performed at many plants as part of previous guide tube support pin replacement projects and from previous guide tube wear inspections performed for the PWROG. Results of the maximum wear per plant are provided. With these examination results the operational extension curves are used to predict when the first inspections should be performed. These results are discussed in Sections 5.3 and 5.4, and the associated wear criteria are discussed in Section 5.2. A separate utility correspondence will be provided to correlate the plant’s alpha designations given in Tables 5-1 through 5-6 to the plant’s name.

In summary, the main results, procedures, and criteria are provided in the following sections of the report:

1. NEI 03-08 ‘Needed’ implementation categories, including options, are outlined in Section 6. An inspection methodology flow chart is also provided.
2. Initial examination measurement generic schedule is outlined in Section 5.4, or if applicable to a utility’s plant, Table 5-14. No examinations are required prior to 2015. See Section 5.4 for certain near-term plant exceptions to the generic schedule that should consider inspections as early as an outage during 2015.
3. An optional guide card wear video inspection screening procedure prior to the first measurement examination is outlined in Section 5.5.1.
4. The numbers of guide tubes to inspect are given in Table 5-16 if a minimum of 20 percent of the guide tubes is not allowed per the criteria outlined in Section 5.5.2.

5. The schedule of subsequent wear examination measurements shall be based on the methodology outlined in Sections 4.3 for guide cards using the operational time extension curves in Section 4.2, and Section 4.4 for the continuous guidance section wear, if needed per Section 5.5.2.
6. The wear criteria are given in Tables 5-7, 5-8, and 5-12. The allowable number of worn-through guide cards is listed in Table 5-10. Recommendations to consider and required remedial actions are listed in Tables 5-11 and 5-12 for guide card and continuous guidance section wear.

#### Regulatory implications for implementation of the new “unapproved” guidance

The NRC staff has consistently expressed the need for the industry to respond quickly to new operating experience and research results in order to manage age-related degradation. In response to industry comments regarding incorporation of new guidance into NUREG 1801 Revision 2 (GALL) the staff included the following preface to Chapter XI to help licensees:

#### ***GUIDANCE ON USE OF LATER EDITIONS/REVISIONS OF VARIOUS INDUSTRY DOCUMENTS***

*To aid applicants in the development of their license renewal applications, the staff has developed a list of aging management programs (AMPs) in the GALL Report that are based entirely or in part on specific editions/revisions of various industry codes (other than the ASME Code), standards, and other industry-generated guidance documents. License renewal applicants may use later editions/revisions of these industry generated documents, subject to the following provisions:*

*(i) If the later edition/revision has been explicitly reviewed and approved/endorsed by the NRC staff for license renewal via an NRC Regulatory Guide endorsement, a safety evaluation for generic use (such as for a BWRVIP), incorporation into 10 CFR, or a license renewal interim staff guidance.*

*(ii) If the later edition/revision has been explicitly reviewed and approved on a plant-specific basis by the NRC staff in their safety evaluation report for another applicant’s license renewal application (a precedent exists). Applicants may reference this and justify applicability to their facility via the exception process in NEI 95-10.*

*If either of these methods is used as justification for adopting a later edition/revision than specified in the GALL Report, the applicant shall make available for the staff’s review the information pertaining to the NRC endorsement/approval of the later edition/revision.*

Based on the guidance above, plants implementing the new requirements may need to change commitments in the license renewal AMP and or FSAR supplement. However, it should be noted that compliance with the requirements in WCAP-17451-P Revision 1 does not necessarily cause non-compliance with the requirements of MRP-227-A. It is up to the individual plant to compare scope and schedule requirements of WCAP-17451-P Revision 1 with their specific commitment or generic commitment to MRP-227-A to determine whether an implementation gap would exist with the requirement in MRP-227-A Table 4-3. Obviously, choosing to perform

visual VT-3 in conjunction with wear measurements of a population of CRGT guide cards equal to or greater than the 20% sample required by Table 4-3 does not constitute non-compliance with MRP-227-A. However, delaying the initial examination to an outage later than allowed by MRP-227-A would constitute non-compliance. In this example a utility would have sufficient technical justification for a deviation but may also have license renewal commitments to address. It is also apparent that the subsequent examination flexibility built into WCAP-17451-P Revision 1 would eventually allow a plant to not comply with the subsequent examination criteria in MRP-227-A. However, it is anticipated that the MRP and PWROG will facilitate review and approval by the NRC of the new guidance for CRGT guide card aging management well before issues of non-compliance with subsequent examination intervals required by MRP-227-A would compel a plant to develop a deviation.

As evidenced by this summary, the document provides for greater flexibility of examination including accurate wear measurements to establish conservative subsequent examination intervals. To facilitate this greater flexibility, the document contains six “needed” elements (**a-f under Section 6.0 of WCAP-17451-P Revision 1, Enclosure 1**) as defined by the NEI 03-08 protocol – “needed” elements that must be “implemented wherever possible, but alternative approaches are acceptable”. Thus a revised needed element is necessary as interim guidance for MRP-227-A to avoid conflicting requirements for CRGT guide card aging management. The revised table entries are thus provided on the following pages as interim guidance until the next revision of MRP-227 is published.

However, as stated in Section 6 of the WCAP, needed requirement “a.” states: *” Each utility shall perform an initial “baseline” examination measurement based on the schedule in Section 5.4 or, if applicable to a utility’s plant, Table 5-14 of Section 5.3, or, if beyond the ranges given below, the first refueling outage commencing after December 31, 2014..... Inspections shall be performed earlier than the generic schedule for plants noted in Section 5.4. No wear measurements prior to 2015 are required.”*

**Table Error! No text of specified style in document.-3  
Westinghouse plants Primary components**

Existing requirement

<b>Item</b>	<b>Applicability</b>	<b>Effect (Mechanism)</b>	<b>Expansion Link (Note 1)</b>	<b>Examination Method/Frequency (Note 1)</b>	<b>Examination Coverage</b>
<b>Control Rod Guide Tube Assembly</b> Guide plates (cards)	All plants	Loss of Material (Wear)	None	Visual (VT-3) examination no later than 2 refueling outages from the beginning of the license renewal period, and no earlier than two refueling outages prior to the start of the license renewal period. Subsequent examinations are required on a ten-year interval.	20% examination of the number of CRGT assemblies, with all guide cards within each selected CRGT assembly examined.  See Figure 4-20

Proposed requirement

<b>Item</b>	<b>Applicability</b>	<b>Effect (Mechanism)</b>	<b>Expansion Link (Note 1)</b>	<b>Examination Method/Frequency (Note 1)</b>	<b>Examination Coverage</b>
<b>Control Rod Guide Tube Assembly</b> Guide plates (cards)	All plants	Loss of Material (Wear)	None	Visual (VT-3) Per the schedule requirements of WCAP-17451-P Section 5 including subsequent examinations (note 7)	Minimum examination of 20% of the number of CGRT assemblies, and as per the requirements of WCAP-17451-P Revision 1 Section 5 (note 7)  See Figure 4-20

Notes for Table 4-3

1. Examination acceptance criteria and expansion criteria for the Westinghouse components are in Table 5-3.
2. A minimum of 75% of the total identified sample population must be examined.
3. A minimum of 75% of the total population (examined + unexamined), including coverage consistent with the Expansion criteria in Table 5-3, must be examined for inspection credit.
4. A minimum of 75% of the total weld length (examined + unexamined), including coverage consistent with the Expansion criteria in Table 5-3, must be examined from either the inner or outer diameter for inspection credit.
5. The lower core barrel flange weld may be alternatively designated as the core barrel-to-support plate weld in some Westinghouse plant designs.
6. Void swelling effects on this component is managed through management of void swelling on the entire baffle-former assembly
7. **WCAP-17451-P Revision 1 requires a remote visual examination consistent with visual (VT-3) for minimum compliance and examination coverage of a minimum of 20% of the number of CRGT guide card assemblies. The baseline examination schedule has been adjusted for various CRGT designs, the extent of individual CRGT examination modified, and flexible subsequent examination regimens correlating to initial baseline sample size, accuracy of wear estimation and examination results.**

**Table 5-3**  
**Westinghouse plants examination acceptance and expansion criteria**

Current Table entry

<b>Item</b>	<b>Applicability</b>	<b>Examination Acceptance Criteria (Note 1)</b>	<b>Expansion Link(s)</b>	<b>Expansion Criteria</b>	<b>Additional Examination Acceptance Criteria</b>
<b>Control Rod Guide Tube Assembly</b> Guide plates (cards)	All plants	Visual (VT-3) examination  The specific relevant condition is wear that could lead to loss of control rod alignment and impede control assembly insertion.	None	N/A	N/A

Proposed Table entry

<b>Item</b>	<b>Applicability</b>	<b>Examination Acceptance Criteria (Note 1)</b>	<b>Expansion Link(s)</b>	<b>Expansion Criteria</b>	<b>Additional Examination Acceptance Criteria</b>
<b>Control Rod Guide Tube Assembly</b> Guide plates (cards)	<i>All plants</i>	<i>Visual (VT-3) examination (Note 3)</i> <i>The specific relevant condition is wear that could lead to loss of control rod alignment and impede control assembly insertion.</i>	<i>None</i>	<i>N/A</i>	<i>NA</i>

Notes to Table 5-3:

1. The examination acceptance criterion for visual examination is the absence of the specified relevant condition(s).
2. The lower core barrel flange weld may alternatively be designated as the core barrel-to-support plate weld in some Westinghouse plant designs.
3. **WCAP-17451-P Revision 1 specifies a remote visual examination consistent with visual (VT-3) but allows for various supplemental measurement techniques which if employed increase wear estimate accuracy and allow use of acceptance criteria (wear projections) to determine the appropriate re-examination interval.**