

# Topic 6

## 5.1.4 Nonqualified Visual Inspection

The EVT-1, VT-1, and VT-3 inspections have detailed quality requirements, which include a need for special equipment and trained and qualified inspectors (see MRP-228 for additional information [3]). Many plants do not have personnel or equipment on site meeting these qualifications and requirements, but they do typically have the ability to perform nonqualified visual inspections as part of maintenance or foreign object search and retrieval operations. These nonqualified visual inspections are capable of detecting loose parts and the effects of substantial degradation in the internals [24]. The relevant conditions for a nonqualified visual inspection would be specific to the particular component and expected degradation effect. For the core shroud tie rods and nuts, as an example, the examination acceptance criterion would be detection of broken, displaced, or missing tie rods or nuts. These nonqualified visual inspections are to be the equivalent of the foreign object search and retrieval inspections performed regularly at each plant.

Table 5-2 (continued)  
CE plants examination acceptance and expansion criteria

Primary Item	Applicability	Examination Acceptance Criteria (Note 1)	Expansion Link(s)	Exp
<b>C18. Core Shroud Assembly (Welded)</b> Core shroud tie rods and nuts	All plants with core shroud tie rods	Nonqualified visual inspection. The specific relevant conditions include broken locking tabs, missing nuts, displaced tie rods, or evidence of wear.	None	N/A
<b>C19. CEA Shroud Assemblies</b> CEA shroud bolts	All plants with CEA shroud bolts	Volumetric (UT) examination. The examination acceptance criteria for the UT of the CEA shroud bolts shall be established as part of the examination technical justification.	None	N/A

**Note:**

1. The examination acceptance criterion for visual examination is the absence of the specified relevant condition(s).