

Construction Significance Determination Process

1. Evaluate the finding using the following factors:

A. Degree of Non-Conformance

- **High:** Finding involves the following deficiencies: invalidation of the acceptance criteria for ITAACs in multiple ITAAC families for which closure letters have been submitted to the NRC; recurring significant condition adverse to quality (SCAQ); multiple repairs or replacements needed to meet acceptance criteria; extensive reanalysis involving reduction of margin to design limits needed; and failure on retest or re-inspection.
- **Medium:** Finding involves the following deficiencies: invalidation of the acceptance criteria for an ITAAC for which in process work has been completed to determine that the acceptance criteria have been met; reanalysis involving reduction of margin to design limits needed; a recurring condition adverse to quality or recurring SCAQ.
- **Low:** Finding involves the following deficiencies: limited rework is necessary to meet the acceptance criteria; the untimely development of corrective actions to address a previously identified condition adverse to quality, simple repair or replacement or reanalysis needed to meet acceptance criteria.
- **Minimal:** No repair, replacement or reanalysis needed to meet acceptance criteria, or program or process corrective actions sufficient.

B. Risk Significance

- **Very Significant:** Finding involves at least one component that has a Fussell-Vesely (FV) importance measure of greater than 0.05 or Risk Achievement Worth (RAW) greater than 20, and the finding materially affects the acceptance criteria for SSCs in multiple ITAAC families.
- **Significant:** Finding involves at least one component that has a FV importance measure greater than 0.005 or RAW above 2, or the finding materially affects the acceptance criteria for multiple ITAAC families or multiple SSCs in an ITAAC.
- **Insignificant:** Finding involves no components that are modeled in the PRA, or are modeled but have a FV value less than 0.005 and RAW less than 2, or the finding materially affects the acceptance criteria for only one SSC in an ITAAC.

Points Option for Degree of Non-conformance

1. Evaluate the finding using the following factors:

A. Degree of Non-Conformance

Evaluate the non-conformance on each of the following factors:

Quality of Construction:

3 points

- Multiple repairs or replacements needed to meet acceptance criteria
- Reanalysis involving reduction of margin to design limits needed, or
- Failure on retest or re-inspection

2 points

- Limited repair or replacement needed to meet specification, or
- Reanalysis needed to meet specification, or
- Acceptable on retest or re-inspection

1 point

- No repair, replacement or reanalysis needed to meet specification, or
- Program or process corrective actions sufficient

Extent of Onsite Review Prior to Identification:

3 points

- ITAAC closure letter submitted to NRC, or
-

2 points

- System turned over for preoperational testing
- In process work has been completed to determine that the acceptance criteria have been met

1 point

- Identified during fabrication, installation, or quality control phase
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Corrective Actions:

3 points

- Recurrence of a similar significant problem due to ineffective corrective actions

2 points

- Untimely corrective actions for a similar problem, or
- Recurrence for a similar, less-significant problem, or
- Problem identified by NRC
- Problem caused by personnel error similar to previous errors

1 point

- Problem not previously identified, or
- Problem identified by planned tests, inspections, or reviews

SUMMARY OF ASSIGNED RATINGS: ____ + ____ + ____ = ____

B. Determination of Degree of Non-Conformance

High: 9 points

Medium: 7 – 8 points

Low: 5 – 6 points

Minimal: 4 points or less

2. Use Significance Determination Process matrix to determine color of finding

Significance Determination Process Matrix

Degree of Non-Conformance	High	White	Yellow	Red
	Medium	Green	White	Yellow
	Low	Green	Green	White
	Minimal	Green	Green	Green
		Insignificant	Significant	Very Significant

Risk Significance