Draft Construction Significance Determination Process

Risk Matrix

Degree of Non-Conformance	Risk Importance: Low (0 –1 Points)	Risk Importance: Moderate (2-5 Points)	Risk Importance: High (≥ 6 points)
High 12 Pts	Low-to-Moderate Safety Significance	Substantial Safety Significance	High Safety Significance
Moderate 9 – 11 Pts	Low Significance	Low-to-Moderate Safety Significance	Substantial Safety Significance
Low-to-Moderate 4 – 8 Pts	Low Significance	Low Significance	Low-to-Moderate Safety Significance
Low 0 – 3 Pts	Low Significance	Low Significance	Low Significance

Construction Significance Determination Process

Risk Matrix

1. Evaluate the finding using the following factors:

A. Degree of Non-Conformance

1) Quality of Construction:

- Condition needed repair or replacement to meet spec – 4 pts
- Retest/reinspection needed; acceptance criteria met – 3 pts
- Condition needed only reanalysis or reevaluation to meet spec – 2 pt
- No repair, replacement, retest, or reanalysis needed to meet spec – 0 pt

Overall rating in this area: _____

2) Extent of Onsite Review Prior to Identification:

- ITAAC Closure Package submitted to NRC – 4 pts
- ITAAC acceptance criteria reviewed and accepted by QA/QC – 3 pts
- Turned-over for preop & ITAAC testing – 2 pts
- Fabrication QC inspection completed successfully – 1 pt

Overall rating in this area: _____

3) Corrective Actions:

- Ineffective corrective actions resulting in recurring SCAQ – 4 pts
- Ineffective corrective actions resulting in recurring CAQ – 3 pts
- Corrective actions untimely for the same root cause(s) – 2 pt
- Problem not previously identified – 0 pt

Overall rating in this area: _____

Sum of points in the three areas: _____

B. Risk Importance

1) Defense-in-Depth:

- Finding materially affects the acceptance criteria for multiple systems identified in D-RAP – 3 pts
- Finding materially affects the acceptance criteria for multiple components in a system identified in D-RAP – 2 pts
- Finding materially affects the acceptance criteria for a component identified in D-RAP – 1 pts

- Finding does not materially affect the acceptance criteria for a component identified in D-RAP – 0 pts

  Overall rating in this area: _____

2) Importance in the PRA Model

- Finding involves at least one component that is modeled in the PRA and has a Fussell-Vesely (FV) importance measure of greater than 0.05 or Risk Achievement Worth (RAW) greater than 20 – 4 pts
- Finding involves at least one component that is modeled in the PRA and has a FV importance measure of between 0.005 and 0.05, or RAW between 2 and 20 – 3 pts
- 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 – 0 pts

  Overall rating in this area: _____

Sum of points in the two areas: _____

Apply point totals from A and B to Y and X axes respectively.