

SEVERITY (S)
Evaluation Criteria

| Effect | Criteria: SEVERITY of Effect | Ranking |
|----------------------------------|---|----------------|
| Hazardous- without warning | Very high severity ranking when a potential failure mode affects safe operation and/or involves noncompliance with regulations without warning. | 10 |
| Hazardous- with warning | Very high severity ranking when a potential failure mode affects safe operation and/or involves noncompliance with regulations with warning. | 9 |
| Very high | Product/item inoperable, with loss of primary function. | 8 |
| High | Product/item operable, but at reduced level of performance. Customer dissatisfied. | 7 |
| Moderate | Product/item operable, but may cause rework/repair and/or damage to equipment. | 6 |
| Low | Product/item operable, but may cause slight inconvenience to related operations. | 5 |
| Very Low | Product/item operable, but possesses some defects (aesthetic and otherwise) noticeable to most customers. | 4 |
| Minor | Product/item operable, but may possess some defects noticeable by discriminating customers. | 3 |
| Very Minor | Product/item operable, but is in noncompliance with company policy. | 2 |
| None | No effect. | 1 |

OCCURRENCE (O)
Evaluation Criteria

| Probability of Failure | Possible Failure Rates | Ranking |
|---|-------------------------------|----------------|
| Very High: Failure is almost inevitable | ≥ 1 in 2 | 10 |
| | 1 in 3 | 9 |
| High: Repeated Failures | 1 in 8 | 8 |
| | 1 in 20 | 7 |
| Moderate: Occasional Failures | 1 in 80 | 6 |
| | 1 in 400 | 5 |
| | 1 in 2,000 | 4 |
| Low: Relatively Few Failures | 1 in 15,000 | 3 |
| | 1 in 150,000 | 2 |
| Remote: Failure is Unlikely | ≤ 1 in 1,500,000 | 1 |

DETECTION (D)
Evaluation Criteria

| Detection | Criteria: Likelihood of DETECTION by Design Control | Ranking |
|----------------------|---|----------------|
| Absolute Uncertainty | Design Control will not and/or can not detect a potential cause/mechanism and subsequent failure mode; or there is no Design Control. | 10 |
| Very Remote | Very remote chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 9 |
| Remote | Remote chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 8 |
| Very Low | Very low chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 7 |
| Low | Low chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 6 |
| Moderate | Moderate chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 5 |
| Moderately High | Moderately high chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 4 |
| High | High chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 3 |
| Very High | Very high chance the Design Control will detect a potential cause/mechanism and subsequent failure mode. | 2 |
| Almost Certain | Design Control will almost certainly detect a potential cause/mechanism and subsequent failure mode. | 1 |