**Failure Mode Effects Analysis, v1**

|  |  |
| --- | --- |
| Product Name | MyIPFWAdvisor |
| Product Owner | IPFW |

|  |  |
| --- | --- |
| Prepared By | Connor Becker |
| FMEA Date | 11 April 2012 |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Key Process Step  or Input | Potential Failure Mode | Potential Failure Effects | Potential Causes | Current Controls | Actions  Recommended | Responsibility | Actions Taken | S  E  V | O  C  C | D  E  T | R  P  N |
| *Which Step*  *or Input?* | *How Can the Process Step or Input Fail* | *How are Key Output Variables Affected?* | *What Causes the Key Input to Fail?* | *What Prevention Controls and Procedures Currently Exist?* | *What are Actions That Could Lower the Frequency of Cause Occurrence, or Improve Detection?* | *Who is Responsible for the Recommended Actions?* | *Note the Actions Taken.* | *Severity* | *Frequency* | *Detection Capability* | *SEV\*OCC\*DET* |
| Cmap Failure | IHMC Public Cmap servers could fail. | Loss of data, loss of structure data | Various disasters (fire, blackout, etc.) | Crude individual backups | Make regular cmap backups on other servers | Connor Becker  Trent Forkert | Backups made now; future backups scheduled. | 5 | 1 | 2 | 10 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rating Scale, Severity (SEV) | |  | Rating Scale, Occurrence (OCC) | |  | Rating Scale, Detection (DET) | |  | RPN = SEV \* OCC \* DET |
| 10 | Hazardous | 10 | Inevitable | 10 | Almost Undetectable |  |
| 8 | Loss of Primary Function | 8 | Frequent Failures | 8 | Very Low Detection Chance |
| 5 | Loss of Secondary Function | 5 | Moderate Failures | 5 | Low Detection Chance |
| 2 | Minor Defect | 2 | Occasional Failures | 2 | Reasonable Detection Chance |
| 1 | Little or No Defect | 1 | Failure Unlikely | 1 | Almost Certain Detection |