| Potential railure Wooe<br>(results in a loss of<br>"Function" or realization | Potential Cause of Failure (Prob of Occurrence)    | o | Potential Effect of<br>Failure (Severity -<br>Function) | s | Risk Assessment<br>Matrix Level | Recommended Actions   | Responsibility                                    | Target Completion Date (MM/DD/YY | Action Taken   | o | s |   | sk Assessment<br>Matrix Level |
|--|--|---|---|---|---------------------------------|---|---|----------------------------------|--|---|---|---|-------------------------------|
| of a hazard)   |  |   |   |   |                                 | 1) See P320 Actions.  |   |                                  | (1320)   |   |   |   | ivide ix Ecver                |
|  |  |   |   |   |                                 | 2) Train in accordance with operator's manual and   |   |                                  | 1) P320 minimum trigger pull is set to maximize trigger control without adversly effecting   |   |   |   |                               |
| Pistol accidentally /  | Accidental trigger pull (Operator error) Finger on |   | Kill person   |   | 104                             | FM 3-23.35  | 1) Sig Engineering                                | 1) Complete                      | accuracy. 2) Adherence to range safety rules will preclude injury in the event of an accidental  | - |   |   | N. d. a. d                    |
| unintentional discharges   | trigger  | C | unintentionally   | 1 | High                            | 4) C D220 A-ti  | 2) User   | 2) TBD                           | discharge. There is also a manual safety to further reduce probability of occurrence.  | Ł |   | 1 | Medium                        |
|  |  |   |   |   |                                 | <ol> <li>See P320 Actions.</li> <li>Train in accordance with operator's manual and</li> </ol>   | 1   |                                  |  |   |   |   |                               |
| Pistol accidentally /  |  |   | Kill person   |   |                                 | FM 3-23.35  | 1) Sig Engineering                                | 1) Complete                      | 1)The P320 trigger is effectively guarded to prevent snags on uniform, gear, or other objects.   |   |   |   |                               |
| unintentional discharges   | Accidental trigger pull (Foreign Object)           | С | unintentionally   | 1 | High                            |   | 2) User   | 2) TBD                           | Manual safety also further reduces probability of occurrence.  | Ε |   | 1 | Medium                        |
|  |  |   |   |   |                                 |   |   |                                  |  |   |   |   |                               |
|  |  |   |   |   |                                 |   |   |                                  | The P320 takedown process has several attibutes that prevent accidental discharge. 1. The slide  |   |   |   |                               |
|  |  |   |   |   |                                 | 1) See P320 Actions.  | ı   |                                  | must be locked to the rear to turn the takedown lever. 2. The magazine must be removed to turn   |   |   |   |                               |
| Pistol accidentally /  | Improperly clearing before takedown/cleaning &     |   | Kill person   |   |                                 | <ol> <li>Train in accordance with operator's manual and<br/>FM 3-23.35</li> </ol>               | 1) Sig Engineering                                | 1) Complete                      | the takedown lever. (This prevent chambering a round inadvertantly during disassembly.) 3. The takedown lever safety disengages the trigger and sear from the striker to prevent energizing of the |   |   |   |                               |
| unintentional discharges   |  | С | unintentionally   | 1 | High                            |   | 2) User   | 2) TBD                           | firing pin. A round intentionally inserted in the chamber during disassembly cannot be fired.  | F |   | 1 | Eliminated                    |
|  |  |   |   |   |                                 |   |   |                                  | The Firing mechanism of the P320 is designed to prevent release of the striker in a drop or during   |   |   |   |                               |
|  |  |   |   |   |                                 |   |   |                                  | transportation. In case of a failure of the sear to striker interface, it has a redundant striker safety   |   |   |   |                               |
|  |  |   |   |   |                                 |   |   |                                  | that blocks striker travel unless the trigger is pulled. The P320 will pass drop safety testing IAW AR- $$   |   |   |   |                               |
| Distal and dentally /  |  |   | IXIII a a a a a a                                       |   |                                 |   | 4) Ci - Francis                                   | 4) Committee                     | PD-177. It will pass loose cargo testing with the safety on or off. The P320 has passed drop safety  |   |   |   |                               |
| Pistol accidentally /  | Impact to weapon (dropped, bumped, vibration)      | С | Kill person<br>unintentionally                          | 1 | High                            | See P320 actions.   | 1) Sig Engineering                                | 1) Complete                      | testing IAW TOP 3-2-045 and NATO STD AC225 D14 without a manual safety, however failed customer drop testing (notified 2/1).   | F |   | 1 | Medium                        |
| annitentional arsonalges   | impact to meapon (all oppea), bumpea, moration,    | · | ammeentonany  | - | 6                               | 1) See P320 Actions.  |   |                                  | During the cycle of operation, the sear engages the striker preventing forward motion of the   | - |   | - | cara                          |
|  |  |   |   |   |                                 | Train in accordance with operator's manual and  | d   |                                  | striker and contact with the primer. The trigger must be reset and pulled in order to release the  |   |   |   |                               |
| Pistol accidentally /  | Slide ignites primer during closing, firing pin    |   | Kill person   |   |                                 | FM 3-23.35  | 1) Sig Engineering                                | 1) Complete                      | striker. In additon, the P320 has been tested with the sear disabled to prove that the striker   |   |   |   |                               |
| unintentional discharges   | inertia  | С | unintentionally   | 1 | High                            |   | 2) User   | 2) TBD                           | inertia is not sufficient to cause the primer to ignite.   | F |   | 1 | Eliminated                    |
|  |  |   |   |   |                                 | 1) See P320 Actions.  |   |                                  | During the cycle of operation, the sear engages the striker preventing forward motion of the   |   |   |   |                               |
|  |  |   | Kill person   |   |                                 | <ol> <li>Train in accordance with operator's manual and<br/>FM 3-23.35</li> </ol>               | 1) Sig Engineering                                | 1) Complete                      | striker and contact with the primer. The trigger must be reset and pulled in order to release the striker. In additon, the P320 has been tested with the sear disabled to prove that the striker   |   |   |   |                               |
| Multishot failure  | Excessive firing pin inertia                       | С | unintentionally   | 1 | High                            | 11013-23.33   | 2) User   | 2) TBD                           | inertia is not sufficient to cause the primer to ignite.   | F |   | 1 | Eliminated                    |
|  |  |   | ,   |   | Ü                               |   | ,   | ,                                | The P320 minimum trigger pull, reset distance, and overtravel are intentional design   |   |   |   |                               |
|  | Incidental trigger pull due to not enough trigger  |   | Kill person   |   |                                 |   | 1) Sig Engineering                                | 1) Complete                      | characteristics intended to provide optimum trigger control and to minimize the likelihood of  |   |   |   |                               |
| Multishot failure  | over travel or trigger reset distance              | С | unintentionally   | 1 | High                            | See P320 Actions.   |   |                                  | inadvertant multiple shots due to "bump fire".   | E |   | 1 | Medium                        |
|  |  |   |   |   |                                 | Training. Users should develop familiarity with   |   |                                  |  |   |   |   |                               |
| Pistol accidentally /  | Accidental trigger pull Holstering/unholstering    |   |   |   |                                 | pistol and holster prior to live fire. Proper technique includes keeping finger out of trigger  |   |                                  |  |   |   |   |                               |
| unintentional discharges   |  | D | Injury  | 2 | Medium                          | guard except when firing.   | 1) User   | 1) TBD                           | See recommendations.   | Е |   | 1 | Medium                        |
| Pistol accidentally /  | ,  |   | Kill person   |   |                                 |   | 1) Sig Engineering                                | 1) Complete                      | The P320 has a striker safety that prevents striker contact with the primer in the unlikely event of   |   |   |   |                               |
| unintentional discharges   | Striker mechanical failure                         | Ε | unintentionally   | 1 | Medium                          | See P320 actions.   |   |                                  | failure of the Striker/Sear interface.   | F |   | 1 | Eliminated                    |
| Pistol accidentally /  | Handa kananan dan ali                              | - | Kill person   |   | Cariana                         | Car B220 antique  | 1) Sig Engineering                                | 1) Complete                      | The D220 is homeonic and home describes a country  | - |   |   | Eliania ata d                 |
| unintentional discharges   | Unsafe nammer decock                               | D | unintentionally   | 1 | Serious                         | See P320 actions.   |   |                                  | The P320 is hammerless and has no decocking operation.   | F |   | 1 | Eliminated                    |
|  |  |   |   |   |                                 | Training. Users should develop familiarity with pistol and proper handling procedures per FM 3- |   |                                  |  |   |   |   |                               |
|  |  |   |   |   |                                 | 23.35. and the user's manual. Proper technique  |   |                                  |  |   |   |   |                               |
| Pistol accidentally /  | Accidental trigger pull while clearing of          |   | Kill person   |   |                                 | includes keeping finger out of trigger guard except   | t   |                                  |  |   |   |   |                               |
| unintentional discharges   | stoppage.  | D | unintentionally   | 1 | Serious                         | when firing.  | 1) User   | 1) TBD                           | See recommendations.   | E |   | 1 | Medium                        |
| Pistol accidentally /  | Slide ignites primer, during feeding               | D | Kill person   | 1 | Sorious                         | 1) See P320 Actions.  | 1) Sig Engineering                                | 1) Complete                      | The P320 has a chamfered hammer ramp. There are no sharp edges capable of igniting a primer.   | Е |   | 1 | Eliminated                    |
| unintentional discharges   | Sindergriftes printer, during reeding              | D | unintentionally   | 1 | Serious                         | 2) Training   | 2) User   | 2) TBD                           | The P320 has a striker return spring that resets the striker position behind the striker safety. In  | ' |   | - | Liiiiiiiateu                  |
| Pistol accidentally /  |  |   | Kill person   |   |                                 |   | 1) Sig Engineering                                | 1) Complete                      | addition, during the action of the slide going into battery, the sear engages the striker. In the  |   |   |   |                               |
| unintentional discharges   | Broken firing pin, stuck in firing position.       | D | unintentionally   | 1 | Serious                         | See P320 actions.   |   |                                  | event of a striker wedged in the slide bore with tip protruding, the pistol cannot close.  | E |   | 1 | Medium                        |
|  |  |   |   |   |                                 | 1) See P320 Actions.  |   |                                  |  |   |   |   |                               |
|  |  |   | IV:II marram  |   |                                 | 2) Train in accordance with operator's manual and   |   | 1) Complete                      | The D220 is designed with a possitive sear and and duel sear antique to approach that are suggested  |   |   |   |                               |
| Multishot failure  | Sear fails to retain striker                       | D | Kill person<br>unintentionally                          | 1 | Serious                         | FM 3-23.35  | <ol> <li>Sig Engineering</li> <li>User</li> </ol> | 1) Complete<br>2) TBD            | The P320 is designed with a negative sear angle and dual sear springs to ensure that once engaged, the sear will not release the striker unless the trigger is reset and pulled.                   | E |   | 1 | Medium                        |
| Wattishot landre   | Scar fails to retain strike.                       |   | annechtionary   | - | Scrious                         | 1) See P320 Actions.  | 2,030   | 2,100                            | the sear will not release the striker arisess the trigger is reset and parieur.  | - |   | - | Wicaram                       |
|  |  |   |   |   |                                 | 2) Train in accordance with operator's manual and   | d   |                                  | The P320 minimum trigger pull, reset distance, and overtravel are intentional design   |   |   |   |                               |
|  |  |   | Kill person   |   |                                 | FM 3-23.35  | 1) Sig Engineering                                | 1) Complete                      | characteristics intended to provide optimum trigger control and to minimize the likelihood of  |   |   |   |                               |
| Multishot failure  | Incidental trigger pull due to Light trigger pull  | D | unintentionally   | 1 | Serious                         |   | 2) User   | 2) TBD                           | inadvertant multiple shots due to "bump fire".   | Е |   | 1 | Medium                        |
| Manage fallate and to  |  |   | to to one has also a harmon                             |   |                                 | 1) See P320 actions. 2) Maintain pistols IAW with   | 4) Ci - Francis                                   | 4) Committee                     | The P320 incorporates corrosion resistant materials and coatings in the design. Manuals provide  |   |   |   |                               |
| Weapon fails to contain firing pressure                                      | Damaged or corroded part                           | D | Injury to shooter or<br>bystander                       | 3 | Medium                          | operator's and maintenance manuals.3) Visually inspect for condition prior to use.              | <ol> <li>Sig Engineering</li> <li>User</li> </ol> | 1) Complete<br>2) TBD            | instruction on proper preservation, inspection, and manintenance to prevent loss of integrity through damage or corrosion.   | F |   | 3 | Eliminated                    |
| mmg pressure   | banaged of corroded part                           |   | bystander   | 3 | Wediam                          | inspect for condition prior to use.   | 2,030   | 2,100                            | The P320 has been designed and validation tested to withstand firing of ball and special purpose   | · |   | 3 | Liiiiiiideed                  |
| Weapon fails to contain  |  |   | Injury to shooter or                                    |   |                                 |   | 1) Sig Engineering                                | 1) Complete                      | rounds with the barrel is obstructed by a bullet. Pressure was contained and there was no  |   |   |   |                               |
| firing pressure  | Barrel obstructed                                  | Ε | bystander   | 3 | Medium                          | See P320 actions.   |   |                                  | evidence of risk of injury to the user.  | F |   | 3 | Eliminated                    |
|  |  |   |   |   |                                 |   |   |                                  | All P320s have been tested for resistance to high pressure by firing a high pressure test cartridge  |   |   |   |                               |
| Weapon fails to contain  | Non-conforming part                                | Е | Injury to shooter or                                    | 3 | Medium                          | See P320 actions  | 1) Sig Engineering                                | 1) Complete                      | conforming to SAAMI-Z299.3 with out failure or damage to the pistol. All barrels will be proof   | F |   | 2 | Eliminated                    |
| firing pressure  | Non-conforming part                                | c | bystander   | 3 | weulum                          | See P320 actions.   |   |                                  | tested during production to the same degree.  All P320s have been tested for resistance to high pressure by firing a high pressure test cartridge  | Г |   | 3 | Liiiiiidled                   |
|  |  |   |   |   |                                 |   |   |                                  | conforming to SAAMI-Z299.3 with out failure or damage to the pistol. All barrels will be proof   |   |   |   |                               |
| Weapon fails to contain  |  |   | Injury to shooter or                                    |   |                                 |   | 1) Sig Engineering                                | 1) Complete                      | tested during production to the same degree. In addition, bore obstruction testing creates an  |   |   |   |                               |
| firing pressure  | Too much pressure                                  | Ε | bystander   | 3 | Medium                          | See P320 actions.   |   |                                  | overpressure condition which did not result in risk of injury to the shooter.  | F |   | 3 | Eliminated                    |
| Manne - f-tl-1   |  |   | Indiamakb   |   |                                 |   | 1) Cia Fa = ! !                                   | 1) Co                            | All P320s have been tested for resistance to high pressure by firing a high pressure test cartridge  |   |   |   |                               |
| Weapon fails to contain firing pressure                                      | Not enough barrel strength                         | Е | Injury to shooter or<br>bystander                       | 3 | Medium                          | See P320 actions.   | 1) Sig Engineering                                | 1) Complete                      | conforming to SAAMI-Z299.3 with out failure or damage to the pistol. All barrels will be proof tested during production to the same degree.  | F |   | 3 | Eliminated                    |
| mmb bi coonic  | chough burier strength                             | _ | bystander   | 3 | Micurulli                       | 555 1 520 detroits.   |   |                                  | costed during production to the sume degree.   | ' |   | , | attui                         |

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## Case 3:22-cv-00885-VAB Document 202-1 Filed 05/14/25 Page 2 of 6 MHS Pistol Failure Modes, Effects, and Criticality Analysis (FMECA)

| Weapon fails to contain<br>firing pressure<br>Weapon fails to contain | Metal fatigue                            | E | Injury to shooter or<br>bystander<br>Injury to shooter or |
|---|--|---|---|
| firing pressure Weapon fails to contain                               | Case Rupture , Slide ignites primer      | E | bystander<br>Injury to shooter or                         |
| firing pressure   | Case Rupture , Excessive temperature     | E | bystander   |
| Weapon fails to contain<br>firing pressure<br>Weapon fails to contain | Case Rupture , Insufficient case support | С | Injury to shooter or<br>bystander<br>Injury to shooter or |
| firing pressure   | Case Rupture , Fires out of battery      | D | bystander   |
| Weapon fails to contain firing pressure Pistol accidentally /         | Case Rupture, defective ammunition       | С | Injury to shooter or<br>bystander<br>Kill person          |
| unintentional discharges Pistol accidentally /                        | High heat COOK OFF                       | E | unintentionally<br>Kill person                            |
| unintentional discharges  | High heat ENVIRONMENTAL                  | Е | unintentionally   |
| Inherent hazards with   |  |   |   |
| firearm Inherent hazards with   | Hot components                           | В | Burns   |
| firearm   | Hot Casing                               | В | Burns   |
| Inherent hazards with firearm   | Loud noise                               | Α | Hearing Loss  |
| Inherent hazards with firearm   | Recoil                                   | В | Repetitive motion injuries                                |
| Inherent hazards with firearm   | Improper disassembly and re-assembly     | В | Improper function of firearm                              |
| Inherent hazards with firearm   | Night Sight vials break                  | D | Tritium gas escapes and is inhaled                        |

|  | 1) Sig Engineering   | 1) Complete   |
|--|--|---|
| ee P320 actions.                               | 1) Sig Engineering   | 1) Complete   |
| ee P320 actions.                               | 1) Sig Eligilieerilig  | 1) Complete   |
|  | 1) Sig Engineering   | 1) Complete   |
| ee P320 actions.                               |  |   |
|  | 1) Sig Engineering   | 1) Complete   |
| ee P320 actions.                               |  |   |
| ee P320 actions.                               | 1) Sig Engineering   | 1) Complete   |
|  |  |   |
| ) Con D220 actions 2) Wass sofety along        | 1) Sig Engineering   | 1) Complete   |
| ) See P320 actions. 2) Wear Salety glasses.    | •  | 2) TBD<br>1) Complete   |
| ee P320 actions.                               |  | , ,   |
| ee P320 actions                                | 1) Sig Engineering   | 1) Complete   |
| cer 320 actions.                               |  |   |
|  |  |   |
| ) See P320 actions, 2) Training and PPE.       |  | 1) Complete<br>2) TBD   |
| ,  | 1) Sig Engineering   | 1) Complete   |
| ) See P320 actions. 2) Training and PPE.       | 2) User  | 2) TBD  |
|  | 1) Sig Engineering   | 1) Complete   |
| lencer kit during live fire.                   | 7-0 0 0  | , ,   |
| epetitive stress from firing can cause injury. |  |   |
| ypically will not happen unless frequent,      | 1) Sig Engineering   | 1) Complete   |
| xtended live fire training is done.            |  |   |
| ) Employ takedown lever                        | 1) Sig Engineering   | 1) Complete   |
| ) Training                                     | 2) User  | 2) TBD  |
|  |  |   |
| ) See P320 actions.                            | 1) Sig Engineering   | 1) Complete   |
| ) Avoid direct inhalation                      | 2) User  | 2) Complete   |
|  | ee P320 actions.  ee P320 actions.  ee P320 actions.  ) See P320 actions. 2) Wear safety glasses.  ee P320 actions.  ee P320 actions.  ) See P320 actions.  ) See P320 actions. 2) Training and PPE.  he P320 meets the noise threshold of Ar-PD-177.  ersonnel should use hearing protection or ilencer kit during live fire.  epetitive stress from firing can cause injury. lowever, this is dependent on the individual and ypically will not happen unless frequent, xtended live fire training is done.  ) Employ takedown lever ) Training  ) See P320 actions. | ee P320 actions.  1) Sig Engineering 2) User 1) Sig Engineering ee P320 actions.  1) Sig Engineering ee P320 actions.  1) Sig Engineering ee P320 actions.  1) Sig Engineering 2) User 2) User 2) Sig Engineering 3) Sig Engineering |

|        |  | 1) Sig Engineering                | 1) Complete | The P320 has been validation tested to 35,000 rounds with no loss of structural integrity. Tests    |   |   |             |
|--------|--|-----------------------------------|-------------|---|---|---|-------------|
| Medium | ee P320 actions.                                 |                                   |             | pistols were still able to withstand firing pressures.  | F | 3 | Eliminated  |
|        |  | 1) Sig Engineering                | 1) Complete |   |   |   |             |
| Medium | ee P320 actions.                                 |                                   |             | The P320 has a chamfered hammer ramp. There are no sharp edges capable of igniting a primer.        | F | 3 | Eliminated  |
|        |  | 1) Sig Engineering                | 1) Complete |   |   |   |             |
| Medium | ee P320 actions.                                 |                                   |             | The P320 has been tested at 160 deg F without failure of cartridge case or barrel.                  | F | 3 | Eliminated  |
|        |  |                                   |             |   |   |   |             |
|        |  | 1) Sig Engineering                | 1) Complete | The P320 provides adequate case support to prevent case failure including HPT cartridges, high      |   |   |             |
| Medium | ee P320 actions.                                 |                                   |             | temperatures, and obstructed bore conditions. This has been proven through validation testing.      | F | 3 | Eliminated  |
|        |  | 1) Sig Engineering                | 1) Complete | The P320 cannot fire out of battery because the striker is not energized enough to ignite a primer  |   |   |             |
| Medium | ee P320 actions.                                 |                                   |             | until after the slide and barrel have reached a locked position.                                    | F | 2 | Eliminated  |
|        |  |                                   |             | 1) The P320 has been tested with ammunition modified to cause a failure of the cartridge case.      |   |   |             |
|        |  | 1) Sig Engineering                | 1) Complete | The pistol was damaged and the extractor was dislodged. 2) Risk of injury to the shooter is         |   |   |             |
| Medium | ) See P320 actions. 2) Wear safety glasses.      | 2) User                           | 2) TBD      | mitigated by use of safety glasses.   | E |   | Medium      |
|        |  | 1) Sig Engineering                | 1) Complete | The P320 has been fired 250 rounds in rapid fire without pause to reload magazines and a round      |   |   |             |
| Medium | ee P320 actions.                                 |                                   |             | left in the chamber. Cook-off did not occur.  | F | 1 | Eliminated  |
|        |  | 1) Sig Engineering                | 1) Complete | The P320 has been conditioned to 160 deg F without discharge (with pistol and loaded                |   |   |             |
| Medium | ee P320 actions.                                 |                                   |             | magazines).   | F | 1 | Flimeineted |
|        |  |                                   |             | The P320 cannot reach temperatures that can cause permanent injury due to burns when fired          |   |   |             |
|        |  |                                   |             | with the basic load of 1 standard and two extended capacity magazines. However, prolonged           |   |   |             |
|        |  | 1) Sig Engineering                | 1) Complete | firing can produce such temperatures. Under such conditions, personnel should be cautioned to       |   |   |             |
| Medium | ) See P320 actions. 2) Training and PPE.         | 2) User                           | 2) TBD      | touch only the grip and controls or to wear gloves.   | С |   | Low         |
|        |  | 1) Sig Engineering                | 1) Complete | 1)The P320 is designed so casings are ejected away from shooter. 2) Range firing lanes should be    |   |   |             |
| Medium | ) See P320 actions. 2) Training and PPE.         | 2) User                           | 2) TBD      | seperated and personnel on the firing line should wear eye protection.                              | С |   | Low         |
|        | he P320 meets the noise threshold of Ar-PD-177.  |                                   |             |   |   |   |             |
|        | ersonnel should use hearing protection or        | 1) Sig Engineering                | 1) Complete | Standard hearing protection, such as ear plugs with a noise reduction rating (NRR) 32 should be     |   |   |             |
| Medium | lencer kit during live fire.                     |                                   |             | used IAW manufacturer's instructions.   | С |   | Low         |
|        | epetitive stress from firing can cause injury.   |                                   |             |   |   |   |             |
|        | lowever, this is dependent on the individual and |                                   |             |   |   |   |             |
|        | ypically will not happen unless frequent,        | <ol><li>Sig Engineering</li></ol> | 1) Complete | The P320's superior ergonomics, including the interchangeable grip sizes, allows a natural grip     |   |   |             |
| Medium | xtended live fire training is done.              |                                   |             | making the inherent recoil of pistol ammunition more comfortable.                                   | В |   | Medium      |
|        |  |                                   |             | P320 design employs takedown lever screw and tamper resistant extractor pin which prevents          |   |   |             |
|        | ) Employ takedown lever                          | <ol><li>Sig Engineering</li></ol> | 1) Complete | disassembly beyond field stripping. Disassembly beyond field strip requires special tools at the    |   |   |             |
| High   | ) Training                                       | 2) User                           | 2) TBD      | armorer level.  | D |   | Medium      |
|        |  |                                   |             | a)Tritium (which itself emits low energy beta radiation) enclosed in borosilicate glass vial, which |   |   |             |
|        |  |                                   |             | is then silicone potted in aluminum sleeving, which is then cushioned with the metal body with      |   |   |             |
|        | ) See P320 actions.                              | 1) Sig Engineering                | 1) Complete | additional potting. Sights have passed NRC NUREG environmental testing.                             |   |   |             |
| Low    | ) Avoid direct inhalation                        | 2) User                           | 2) Complete | b) PSDS specifies to avoid inhalation and ventilate area  | D | 4 | Low         |
|        |  |                                   |             |   |   |   |             |

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|                               | PROB                | ABILITY LEVELS / F  | MEA OCCURRENCE  |  |
|-------------------------------|---------------------|---|---|--|
| Description<br>(Mil-Std-882E) | Level<br>(Mil 882E) | Specific Individual Item<br>(Mil-Std-882E)  | Fleet or Inventory<br>(Mil-Std-882E)                    | Occurrence<br>(MIL-STD-882E SPECIFIC INDIVIDUAL<br>ITEM) |
| Frequent                      | А                   | Likely to occur often in<br>the life of an item   | Continuously experienced                                | Occurrence > .1<br>10%                                   |
| Probable                      | В                   | Will occur several times<br>in the life of an item                                      | Will occur frequently                                   | >0.01<br>>1%   |
| Occasional                    | С                   | Likely to occur<br>sometimes in the life of<br>an item                                  | Will occur several times                                | >0.001<br>>0.1%  |
| Remote                        | D                   | Unlikely, but possible to occur sometimes in the life of an item                        | Unlikely, but can reasonably be expected to occur       | >0.000001<br>>.0001%                                     |
| Improbable                    | E                   | So unlikely, it can be assumed occurrence may not be experienced in the life of an item | Unlikely to occur, but possible                         | <0.000001<br>.0001%                                      |
| Eliminated<br>(882E)          | F<br>(882E)         | Incapable of occurrence.  | This level is used when the tified and later eliminated | Failure is Eliminated through preventive control         |

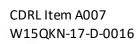
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| SEVERITY LEVELS (MIL-STD-882E) |                     |   |  |  |  |  |
|--------------------------------|---------------------|---|--|--|--|--|
| Description<br>(Mil-Std-882E)  | Level<br>(Mil 882E) | Specific Individual Item<br>(Mil-Std-882E)  |  |  |  |  |
| Catastrophic                   | 1                   | Could result in one or more of the following: death, permanent total disability, irreversible significant environmental impact, or monetary loss >\$10M   |  |  |  |  |
| Critical                       | 2                   | Could result in one or more of the following: permanent partial disability, injuries or occupational illness that may result in hospitalization of at least 3 personnel, reversible significant environmental impact, or monetary loss, (\$1M <loss <\$10m)<="" td=""></loss> |  |  |  |  |
| Marginal                       | 3                   | Could result in one or more of the following: injuries or occupation illness that may result in one or more lost work day(s), reversible moderate environmental impact, or monetary loss, (\$100K <loss <\$2<="" td=""></loss>  |  |  |  |  |
| Negligible                     | 4                   | Could result in one or more of the following: injuries or occupational illness not resulting in lost work day, minimal environmental impact, amonetary loss, (<\$100K)  |  |  |  |  |
| N/A                            | N/A                 | N/A   |  |  |  |  |

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|                       | RISK A           | SSESSMENT M     | ATRIX           |                   |  |  |
|-----------------------|------------------|-----------------|-----------------|-------------------|--|--|
| SEVERITY              | Catastrophic (1) | Critical<br>(2) | Marginal<br>(3) | Negligible<br>(4) |  |  |
| Frequent<br>(A)       | High             | High            | Serious         | Medium            |  |  |
| Probable<br>(B)       | High             | High            | Serious         | Medium            |  |  |
| Occasional<br>(C)     | High             | Serious         | Medium          | Low               |  |  |
| Remote<br>(D)         | Serious          | Medium          | Medium          | Low               |  |  |
| Improbable<br>(E)     | Medium           | Medium          | Medium          | Low               |  |  |
| Eliminated Eliminated |                  |                 |                 |                   |  |  |

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