

Requirements for the Scenario Planner
Sorted by User Priority (Low to High), then Functional Category (Alphabetically)
- exported from DOORS on 12/19/00

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 77 | The user shall be able to import IR signatures. | Low | | | Does Not Exist | | Yes | | | |
| R - 78 | The user shall be able to import RF signatures. | Low | | | Does Not Exist | | Yes | | | |
| R - 251 | The user shall be able to import PMS-451 decision aid tool output. | Low | | | Does Not Exist | | Yes | | | |
| R - 252 | The user shall be able to receive inputs from the PMRF Range. | Low | | | Does Not Exist | | | | | |
| R - 389 | The user shall be able to calculate estimated target RF and IR signatures as a function of time for a given sensor | Low | | | Does Not Exist | Yes | Yes | | | |
| R - 392 | The user shall be able to conduct launch window planning. | Low | | | Does Not Exist | Yes | Yes | | | |
| R - 45 | The user shall be able to develop the scenario missile trajectory within the tool. | Low | | | Does Not Exist | Yes | Yes | | | |
| R - 46 | The user shall be able to develop the target trajectory within the tool. | Low | | | Partially Exists | Yes | Yes | | | |
| R - 66 | The user shall be able to develop a missile trajectory. | Low | | | Partially Exists | | Yes | | | |
| R - 228 | The user shall be able to add detailed specifications to targets | Low | | | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 243 | The user shall be able to synchronize multiple targets, showing the position/time relationship between them for use with manned targets. | Low | | | Does Not Exist | | | | Yes | |
| R - 254 | The user shall be able to perform critical risk analysis real time. | Low | | | Does Not Exist | | | Yes | | |
| R - 396 | The user shall be able to display PMS-451 decision aid tool output. | Low | | | Does Not Exist | | Yes | | | |
| R - 247 | The user shall be able to manually enter the test objectives of the mission. | Medium | | | Does Not Exist | | Yes | | | |
| R - 56 | The user shall be able to import monte carlo target trajectories. | Medium | | | Does Not Exist | | Yes | | | |
| R - 102 | The user shall be able to import emitter data, as applicable, to include frequency range, primary mission frequency, back-up mission frequency, function, transmitter power, peak/average, pulse width, PRF. | Medium | | | Does Not Exist | | Yes | | | |
| R - 162 | The user shall have access to three-dimensional graphically formatted profiles. | Medium | | | Does Not Exist | | Yes | Yes | | |
| R - 242 | The user shall be able to create down range and cross range plots for all participant vehicles. | Medium | | | Does Not Exist | | | | Yes | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 293 | The user shall be able to develop a Telemetry (TM) Support Plan provided by PMRF. | Medium | | | Does Not Exist | | Yes | | | |
| R - 357 | The user shall be able to display the test objectives of the mission. | Medium | | | Does Not Exist | | Yes | | | |
| R - 112 | The user shall be able to download current GPS data elements via INET through message 25 to be used in launch window calculation. | Medium | | | Does Not Exist | | Yes | | | |
| R - 11 | The user shall be able to export scenario files with format to be determined. | Medium | | | Does Not Exist | | Yes | | | |
| R - 80 | The user shall be able to export estimated IR signature history. | Medium | | | Does Not Exist | | Yes | | | |
| R - 81 | The user shall be able to export estimated RF signature. | Medium | | | Does Not Exist | | Yes | | | |
| R - 346 | The user shall be able to import a high fidelity model of telemetry effective radiated power vs attitude. | High | | | Does Not Exist | | Yes | | | |
| R - 365 | The user shall be able to input single nominal trajectories for a given launch vehicle where trajectory coordinate frame should be standard (WGS-84 ECI with epoch at t=0, ECEF or geodetic) and include time, position, velocity acceleration and three-dimensional body orientation (Euler angles or | High | | | Does Not Exist | Yes | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | direction cosine matrix). | | | | | | | | | |
| R - 366 | The user shall be able to input multiple off-nominal (-100) trajectories for a given launch vehicle where trajectory coordinate frame should be standard (WGS-84 ECI with epoch at t=0, ECEF or geodetic) and include time, position, velocity acceleration, and three-dimensional body orientation (Euler angles or direction cosine matrix). | High | | | Does Not Exist | Yes | Yes | | | |
| R - 367 | The user shall be able to load aircraft flight paths (and orientation where available) from a text file. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 368 | The user shall be able to manually input all participant locations as paths or fixed points. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 369 | The user shall be able to input a basic launch window closure table from a text file (e.g., satellite collision avoidance (COLA) launch window closure table) | High | | | Does Not Exist | Yes | Yes | | | |
| R - 370 | The user shall be able to manually enter solar orbital element sets. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 371 | The user shall be able to manually enter lunar orbital element sets. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 372 | The user shall be able to manually | High | | | Does Not | Yes | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | enter launch window closure criteria for various sensors (e.g., sun or moon exclusion angles, no radiation into geosynchronous belt, etc.) | | | | Exist | | | | | |
| R - 19 | The user shall be able to install a runtime version of the Scenario Planner from a CD with minimal instruction on specified hardware. | High | | | Partially Exists | Yes | Yes | Yes | Yes | Yes |
| R - 20 | The user shall be able to initiate a scenario plan. | High | | | Does Not Exist | Yes | | | | |
| R - 21 | The user shall be able to incorporate inputs from their weapons' customers | High | | | Does Not Exist | Yes | | | | |
| R - 55 | The user shall be able to import nominal missile trajectories. | High | | | Exists | | Yes | | | |
| R - 334 | The user shall be able to set a classification banner. | High | | | Does Not Exist | | Yes | | | |
| R - 150 | The user shall be able to enter a timeline for the plan. | High | | | Not Sure | | Yes | | | |
| R - 156 | The user shall be able to identify the Operation's participants. | High | | | Does Not Exist | | Yes | Yes | Yes | |
| R - 157 | The user shall be able to position the Operation participants (i.e., put a participant at a particular latitude/longitude). | High | | | Exists | | Yes | | | |
| R - 266 | The user shall be able to link to the | High | | | Does Not | | | | Yes | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | Op clock. | | | | Exist | | | | | |
| R - 269 | The user shall be able to import a PFPS route for various support aircraft such as the SRALT C-130's flight path. | High | | | Does Not Exist | | Yes | | | |
| R - 339 | The user shall be able to identify ID, lat/long and status as a user-defined event (e.g., in or out of the box). | High | | | Does Not Exist | | | Yes | Yes | |
| R - 336 | The user shall be able to save generic emitter data to be used for other missions | High | | | Does Not Exist | | Yes | | | |
| R - 338 | The user shall be able to compute real time events (e.g., time to specified altitude, time to apogee altitude, impact point). | High | | | Does Not Exist | | Yes | | | |
| R - 340 | The user shall be able to generate a go/no-go table from manually entered data. | High | | | Does Not Exist | | Yes | | | |
| R - 343 | The user shall be able to generate a go/no-go table from imported data. | High | | | Does Not Exist | | Yes | | | |
| R - 362 | The user shall be able to copy plots from the Scenario Planner for pasting into PowerPoint slides. | High | | | Does Not Exist | | Yes | | | |
| R - 363 | The user shall be able to paste copied plots from the Scenario Planner into PowerPoint slides. | High | | | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 382 | The user shall be able to write aircraft flight paths (and orientation where available) from a text file. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 383 | The user shall be able to compare parameters from various participants. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 384 | The user shall be able to tag one (1) or more vehicles and participants and flip the scenario about a vertical plane. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 385 | The user shall be able to attach IR sensors to participants and define azimuth limits, elevation limits, or boresight and half-angle. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 386 | The user shall be able to attach visual sensors to participants and define azimuth limits, elevation limits, or boresight and half-angle. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 387 | The user shall be able to attach RF sensors to participants and define azimuth limits, elevation limits, or boresight and half-angle. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 390 | The user shall be able to calculate polarization angle and interpolate RCS tables to plot RCS vs. time for various sensors, given percentile and RF band. | High | | | Does Not Exist | Yes | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 391 | The user shall be able to interpolate IR tables and plot IR vs. time for various sensors given the waveband. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 393 | The user shall be able to conduct rudimentary link margin analysis. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 175 | The user shall be able to generate and process, in standalone, INET data in messages 25 and 26 (from an ASCII file) | High | | | Partially Exists | | Yes | Yes | | |
| R - 36 | The user shall be able to set the accuracy of trajectory readings (e.g., by selecting higher level fidelity vs. nominal that is shown in the top down view) prior to Mission Operations. | High | | | Partially Exists | | | | Yes | |
| R - 97 | The user shall be able to save to a file in table format the tracking parameters for given participants and targets including: slant range, horizon angle, elevation angel, azimuth angle, aspect angle and roll angle as a function of time. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 120 | The user shall be able to change the time at a waypoint for a vehicle within a scenario. | High | | | Exists | | Yes | | | |
| R - 122 | The user shall be able to monitor targets real-time. | High | | | Exists | | | | Yes | |
| R - 123 | The user shall be able to monitor | High | | | Does Not | | | | Yes | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | radars real-time, via a radar status display.. | | | | Exist | | | | | |
| R - 124 | The user shall be able to compare radar “on target” delta azimuth and delta elevation for all sensors vs. chosen source. | High | | | Partially Exists | | | | Yes | |
| R - 128 | The user shall be able to verify the instrumentation, via a decision aid that provides an indication when a set constraint is not met. | High | | | Does Not Exist | | | | Yes | |
| R - 130 | The user shall be able to monitor the nominal scenario vs. actuals for all key participants during real time operations. | High | | | Partially Exists | | | | Yes | |
| R - 135 | The user shall be able to monitor time on target from first detection including SNR and link margin, including predicted intercept for one (1) to many participants. | High | | | Does Not Exist | | | | Yes | |
| R - 206 | The user shall be able to add in the BQMs, ships and other vehicles to the scenario. | High | | | Does Not Exist | | Yes | | | |
| R - 218 | The user shall be able to play back the scenario in a preview mode. | High | | | Exists | | | Yes | | |
| R - 255 | The user shall be able to identify options real time: (a) mitigation planning; (b) risk planning; (c) contingency planning; (d) rehearsal phase. | High | | | Does Not Exist | | | Yes | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 267 | The user shall be able to produce a generic "X,Y" plot from readily accessible track data. | High | | | Does Not Exist | | | | Yes | |
| R - 268 | The user shall be able to link from real time to Op time to be able to time sync vehicle movement and departure times for T-0. | High | | | Does Not Exist | | | | Yes | |
| R - 320 | The user shall be able to access a three-dimensional perspective view of planned vs. actual trajectories for the purpose of evaluating the deltas. | High | | | Partially Exists | | | | | Yes |
| R - 324 | The user shall be able to view the whole body/intact impact points of the target (GOG files) within the mapped test area location | High | | | Exists | | Yes | | | |
| R - 326 | The user shall be able to view the whole body/intact interceptor impact points within the mapped test area location. | High | | | Exists | | Yes | | | |
| R - 327 | The user shall be able to view the location of radars (to include fixed and mobile platforms) within the mapped test area location by hooking an icon and getting amplified information. | High | | | Partially Exists | | Yes | | | |
| R - 341 | The user shall be able to display a go/no-go table generated from manually entered data. | High | | | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 344 | The user shall be able to display a go/no-go table generated from imported data. | High | | | Does Not Exist | | Yes | | | |
| R - 347 | The user shall be able to display the tracking parameters. | High | | | Does Not Exist | | Yes | | | |
| R - 349 | The user shall be able to display slant range vs. time in table and graphic format. | High | | | Does Not Exist | | Yes | | | |
| R - 351 | The user shall be able to display Radar Cross Section (RCS) data vs. time. | High | | | Partially Exists | | Yes | | | |
| R - 353 | The user shall be able to display IR history during tracking parameter calculations. | High | | | Partially Exists | | Yes | | | |
| R - 355 | The user shall be able to display link margins during tracking parameter calculations. | High | | | Partially Exists | | Yes | | | |
| R - 360 | The user shall be able to display generic "X,Y" plots from readily accessible track data, specifying fixed scales and increments. | High | | | Does Not Exist | | Yes | | | |
| R - 364 | All test participants shall be able to view the Mission Checklist. | High | | | Does Not Exist | | Yes | | | |
| R - 394 | The user shall be able to view multiple Radar Cross Section (RCS) tables as a function of target aspect and roll angle, and | High | | | Does Not Exist | Yes | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | polarization for a given target at a given RF band and a given percentile for each target. | | | | | | | | | |
| R - 395 | The user shall be able to view IR signature tables as a function of altitude and aspect angle for different wavebands. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 126 | The user shall be able to graphically view a plot of the sidelobe vs. main beam radar tracks. | High | | | Does Not Exist | | | | Yes | |
| R - 137 | The user shall be provided a visual warning of any deviations to nominal outside set criteria limits to the plan. | High | | | Does Not Exist | | | | Yes | |
| R - 139 | The user shall be provided with a visual warning of any deviations to nominal outside set criteria limits with plan modifications. | High | | | Does Not Exist | | | | Yes | |
| R - 140 | The user shall be able to play back the nominal track in real time. | High | | | Exists | | | Yes | Yes | |
| R - 141 | The user shall be able to play the simulation real time. | High | | | Exists | | | | Yes | |
| R - 142 | The user shall be able to watch the nominal. | High | | | Exists | | | | Yes | |
| R - 186 | The user shall be able to display the Aux Sensor checklist. | High | | | Does Not Exist | | | | Yes | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 207 | The user shall be able to display graphically and in tabular format launch times and Initial Point (IP) times of all launches based on input T-0 time. | High | | | Exists | | Yes | | | |
| R - 361 | The user shall be able to determine blockages using shadow graphs. | High | | | Does Not Exist | | Yes | | | |
| R - 337 | The user will be able to output a report/graph showing emitters and their operating frequencies | High | | | Does Not Exist | | Yes | | | |
| R - 345 | The user shall be able to output plots showing signal-to-noise ratio (SNR) to the printer | High | | | Does Not Exist | | Yes | | | |
| R - 348 | The user shall be able to print the tracking parameters in table format. | High | | | Does Not Exist | | Yes | | | |
| R - 350 | The user shall be able to print and plot slant range vs. time in table and graphic format | High | | | Does Not Exist | | Yes | | | |
| R - 352 | The user shall be able to print and plot RCS data vs. time in table and graphic format. | High | | | Partially Exists | | Yes | | | |
| R - 354 | The user shall be able to print IR history during tracking parameter calculations. | High | | | Partially Exists | | Yes | | | |
| R - 356 | The user shall be able to print link margins during tracking parameter calculations. | High | | | Partially Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 358 | The user shall be able to output data from the Scenario Planner to a file format that will allow easy import to MS Powerpoint. | High | | | Partially Exists | | Yes | | | |
| R - 373 | The user shall be able to output single nominal trajectories for a given launch vehicle where trajectory coordinate frame should be standard (WGS-84 ECI with epoch at t=0, ECEF or geodetic) and include time, position, velocity acceleration and 3-dimensional body orientation (Euler angles or direction cosine matrix). | High | | | Does Not Exist | Yes | Yes | | | |
| R - 374 | The user shall be able to output multiple off-nominal (-100) trajectories for a given launch vehicle where trajectory coordinate frame should be standard (WGS-84 ECI with epoch at t=0, ECEF or geodetic) and include time, position, velocity acceleration and three-dimensional body orientation (Euler angles or direction cosine matrix). | High | | | Does Not Exist | Yes | Yes | | | |
| R - 375 | The user shall be able plot the tracking parameters for given participants and targets including: slant range, horizon angle, elevation angel, azimuth angle, aspect angle and roll angle as a function of time. | High | | | Does Not Exist | Yes | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 376 | The user shall be able to print multiple Radar Cross Section (RCS) tables as a function of target aspect and roll angle, and polarization for a given target at a given RF band and a given percentile for each target. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 377 | The user shall be able to print IR signature tables as a function of altitude and aspect angle for different wavebands. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 378 | The user shall be able to print signature vs. time reports for a given participant. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 379 | The user shall be able to output an overall launch window closure table for a given time span on a given day. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 380 | The user shall be able to plot all window closures for various criteria. | High | | | Does Not Exist | Yes | Yes | | | |
| R - 381 | The user shall be able to plot an overall launch window for a given day (primary or backup launch day). | High | | | Does Not Exist | Yes | Yes | | | |
| R - 41 | The user shall be able to export quick-look reports into MS Power Point. | High | | | Does Not Exist | | | | | Yes |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 38 | The user shall be able to output a three-dimensional perspective view of planned vs. actual trajectories in viewgraph format for the purposes of evaluating the models. | High | | | Does Not Exist | | | | | Yes |
| R - 84 | The user shall be able to print a manually entered summary of the Operation. | High | | | Does Not Exist | | | | | Yes |
| R - 85 | The user shall be able to print out collected track data from the operation as specified by the user. | High | | | Does Not Exist | | | | | Yes |
| R - 129 | The user shall be able to print an SRR report identifying the equipment used during the operation. | High | | | Does Not Exist | | | | | Yes |
| R - 143 | The user shall be able to generate real time data products. | High | | | Partially Exists | | | | Yes | |
| R - 144 | The user shall be able to access records of real time occurrences. | High | | | Does Not Exist | | | | | Yes |
| R - 146 | The user shall be able to generate approved missions that transition from working plans into certified plans. | High | | | Does Not Exist | | Yes | | | |
| R - 148 | The user shall be able to post collected Operations data. | High | | | Exists | | | | | Yes |
| R - 155 | The user shall be able to output the sensor assignment timeline graph as a file. | High | | | Partially Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 192 | The user shall be able to output a Lessons Learned Report. | High | | | Does Not Exist | | | | | Yes |
| R - 233 | The user shall be able to output the Mission Profile. | High | | | Does Not Exist | | Yes | | | |
| R - 245 | The user shall be able to produce a target performance report | High | | | Partially Exists | | | | | Yes |
| R - 257 | The user shall receive on screen notification as oart if a decision aid. (Preferred MO) | High | | | Does Not Exist | | | Yes | | |
| R - 264 | The user shall be able to output a vehicle ID table. | High | | | Partially Exists | | Yes | | | |
| R - 265 | The user shall be able to output a Sensor ID table. | High | | | Partially Exists | | Yes | | | |
| R - 321 | The user shall be able to output a three-dimensional perspective view of planned vs. actual trajectories in viewgraph format for the purposes of evaluating the models. | High | | | Does Not Exist | | | | | Yes |
| R - 69 | The user shall be able to output generic footprint patterns (GOG files) with labels in planned scenarios. | | | | | | Yes | | | |
| R - 302 | The user shall be able to view the frequency range of command-destruct system within each scenario in tabular format. | High | CDS | | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 42 | The user shall be able to store a read-only configuration-managed version of the baselined scenario. | High | CM | \$ | Exists | Yes | Yes | Yes | Yes | Yes |
| R - 43 | The user shall be able to access the baselined version of the scenario with no threat of overwriting that scenario. | High | CM | \$ | Exists | Yes | Yes | Yes | Yes | Yes |
| R - 47 | The user shall be able to maintain configuration control of scenarios. | High | CM | \$ | Exists | Yes | Yes | Yes | Yes | Yes |
| R - 49 | The user shall be able to save a working copy of an original baselined scenario under a name different than the baselined scenario name. | High | CM | \$ | Partially Exists | Yes | Yes | | | |
| R - 50 | The user shall be able to modify a working copy of an original baselined scenario. | High | CM | \$ | Exists | Yes | Yes | | | |
| R - 51 | The user shall be prevented from overwriting original baselined scenarios. | High | CM | \$ | Exists | Yes | Yes | Yes | Yes | Yes |
| R - 62 | The user shall be able to maintain Configuration Management (CM) control of the target trajectories. | High | CM | \$ | Exists | | Yes | | | |
| R - 63 | The user shall be able to maintain CM control of missile trajectories. | High | CM | \$ | Exists | | Yes | | | |
| R - 64 | The user shall be able to maintain CM control of Auxiliary Sensors – TSPS footprints received from | High | CM | \$ | Partially Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|----------------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | outside the lab. | | | | | | | | | |
| R - 216 | The user shall be able to automatically run scripts to check Scenario Planner configuration and status. | High | CM | \$ | Does Not Exist | | Yes | | | |
| R - 398 | The user shall be able to manually enter data to generate a go/no-go table. | High | Decision Aids | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 342 | The user shall be able to import data to generate a go/no-go table. | High | Decision Aids | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 215 | The user shall have a decision aid matrix. | High | Decision Aids | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 253 | The user shall be able to perform analysis of the real time scenario mission (i.e., Go/No-go) | High | Decision Aids | \$\$\$ | Does Not Exist | | Yes | Yes | | |
| R - 295 | The user shall be able to view, in tabular format with color codes, the minimum acceptable data sources for the safety solution to include radars and vehicle telemetry. | High | Decision Aids/Range Safety | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 296 | The user shall be able to view instrumentation requirements in tabular format for the target within each scenario. | High | Decision Aids/Range Safety | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 297 | The user shall be able to view instrumentation requirements for the interceptor within each | High | Decision Aids/Range Safety | \$\$\$ | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|-------------------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | scenario. | | | | | | | | | |
| R - 388 | The user shall be able to calculate tracking parameters for given participants and targets including: slant range, horizon angle, elevation angle, azimuth angle, aspect angle and roll angle as a function of time. | High | Decision Aids/Target Analysis | \$\$\$ | Partially Exists | Yes | Yes | | | |
| R - 94 | The user shall be able to analyze radar-tracking parameters (e.g., time, position, velocity, acceleration, 3-D body orientation) for AST-to-Target launches. | Low | Decision Aids/Target Analysis | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 95 | The user shall be able to analyze radar-tracking parameters (e.g., time, position, velocity, acceleration, 3-D body orientation) for missile-to-target launches. | Low | Decision Aids/Target Analysis | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 96 | The user shall have access to all aspects of tracking during analysis to include roll angle. | High | Decision Aids/Target Analysis | \$\$\$ | Partially Exists | | Yes | | | |
| R - 98 | The user shall be able to calculate estimated slant range vs. time during tracking parameter calculations. | High | Decision Aids/Target Analysis | \$\$\$ | Partially Exists | | Yes | | | |
| R - 99 | The user shall be able to calculate Radar Cross Section (RCS) data vs. time during tracking parameter calculations.. | High | Decision Aids/Target Analysis | \$\$\$ | Partially Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|-------------------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 101 | The user shall be able to calculate link margins during tracking parameter calculations. | High | Decision Aids/Target Analysis | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 335 | The user shall be able to display a classification banner. | High | Display Feature | \$ | Does Not Exist | | Yes | | | |
| R - 103 | The user shall be able to manually enter emitter data to include frequency range, primary mission frequency, back-up mission frequency, function, transmitter power, peak/average, pulse width, PR. | High | Emitter | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 109 | The user shall be able to determine where RF emission may interfere with satellites. | High | Emitter | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 147 | The user shall be able to collect data from the Operation. | High | Features/Data Recording | \$ | Partially Exists | | | | | Yes |
| R - 195 | The user shall be able to manually enter a Scenario Plan from APL | High | Features/File Exchange | \$ | Exists | | Yes | | | |
| R - 234 | The user shall be able to create or save Generalized Overlay Generator (GOG) in Microsoft Excel spreadsheet format and strip out extraneous data. | High | Features/GOG Translation | \$ | Does Not Exist | | Yes | | | |
| R - 111 | The user shall be able to use WGS-84 formatted data. | High | Features/Processing | \$ | Exists | | Yes | | | |
| R - 208 | The user shall be able to display the overlays. | High | GOG | | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 16 | The user shall be able to define Operational Areas within a scenario as GOG files for tankers, orbits, shooters, etc. | High | GOG/Op Areas | | Exists | | Yes | | | |
| R - 119 | The user shall be able to add the TSPs at the nominal trajectory | High | GOG/Planning | | Exists | | Yes | | | |
| R - 273 | The user shall be able to load the whole body/intact impact points of the target (GOG files) within the mapped test area location | High | GOG/Range Safety | | Exists | | Yes | | | |
| R - 275 | The user shall be able to load the whole body/intact interceptor impact points within the mapped test area location. | High | GOG/Range Safety | | Exists | | Yes | | | |
| R - 14 | The user shall be able to import hazard patterns within a scenario. | High | GOG/Range Safety | | Exists | | Yes | | | |
| R - 68 | The user shall be able to input generic footprint patterns (GOG files) with labels in planned scenarios. | High | GOG/Range Safety | | Exists | | Yes | | | |
| R - 232 | The user shall be able to generate a Generalized Overlay Generator (GOG) file of the target flight path. | High | GOG/Trajectory | | Exists | | Yes | | | |
| R - 100 | The user shall be able to calculate IR history during tracking parameter calculations. | High | IR | | Partially Exists | | Yes | | | |
| R - 92 | The user shall be able to manually | High | Launch | \$\$\$ | Does Not | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | enter solar criteria (date, time, boresight angle, interval) for the purpose of calculating a launch window. | | Window | | Exist | | | | | |
| R - 93 | The user shall be able to manually enter lunar criteria (date, time, boresight angle, interval) for the purpose of calculating a launch window. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 104 | The user shall be able to import COLA window closures. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 90 | The user shall be able to calculate solar data. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 91 | The user shall be able to calculate lunar data. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 79 | The user shall be able to perform launch window planning. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 108 | The user shall have access to Global Positioning Satellite (GPS) location to be used in launch window planning | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 115 | The user shall be able to access downloaded solar data, lunar data, and COLA results in a single window. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 86 | The user shall be able to view solar data for user input date and time. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 87 | The user shall be able to view lunar data for user input date and time. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 116 | The user shall be able to display COLA window closures. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 113 | The user shall be able to download screen Kinetic Warhead (KW) solar exclusion satellite Collision Avoidance (COLA) results. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 114 | The user shall be able to download screen KW lunar exclusion satellite Collision Avoidance (COLA) results. | High | Launch Window | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 322 | The user shall be able to load NIMA data from NIMA source media. | High | Map Features | \$ | Does Not Exist | | Yes | | | |
| R - 270 | The user shall be able to view a map of the test area to include the display of NIMA products (e.g., charts and DTED) and World Vector Shoreline (WVS). | High | Map Features | \$ | Exists | | Yes | | | |
| R - 283 | The user shall be able to view user-specified coastlines in GOG and World Vector Shoreline (WVS) formats within the mapped test area location. | High | Map Features | \$ | Exists | | Yes | | | |
| R - 284 | The user shall be able to view user-specified Hawaiian Islands chain in GOG and World Vector Shoreline | High | Map Features | \$ | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | within the mapped test area location. | | | | | | | | | |
| R - 285 | The user shall be able to view user-specified geographic features within the mapped test area location. | High | Map Features | \$ | Exists | | Yes | | | |
| R - 286 | The user shall be able to view user-specified fixed air routes within the mapped test area location. | High | Map Features | \$ | Exists | | Yes | | | |
| R - 287 | The user shall be able to view user-specified transient air routes within the mapped test area location. | High | Map Features | \$ | Exists | | Yes | | | |
| R - 288 | The user shall be able to view latitude/longitude grid annotations within the mapped test area location. | High | Map Features | \$ | Exists | | Yes | | | |
| R - 158 | The user shall be able to enter the vehicle types. | High | Models/Vehicle | \$ | Exists | | Yes | | | |
| R - 159 | The user shall be able to enter the vehicle characteristics to include maximum/minimum velocity, turn rate, climb rate and launch rate, RCS, head-on and side aspect. | High | Models/Vehicle | \$ | Partially Exists | | Yes | | | |
| R - 359 | The user shall be able to generate generic "X,Y" plots from readily accessible track data, specifying fixed scales and increments. | High | OPS/Analysis | \$\$ | Partially Exists | | Yes | | | |
| R - 290 | The user shall be able to view the | High | OPS/Analysis | \$\$ | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | distances between the Firing Unit elements within the mapped test area location. | | | | | | | | | |
| R - 291 | The user shall be able to plot Altitude vs. Time of planned and actual trajectories for each target within each scenario. | High | OPS/Analysis | \$\$ | Partially Exists | | Yes | | | |
| R - 292 | The user shall be able to plot the down-range Distance vs. Time of each target within each scenario. | High | OPS/Analysis | \$\$ | Partially Exists | | Yes | | | |
| R - 319 | The user shall be able to monitor actual trajectories vs. planned trajectories during real-time operations. | High | OPS/Analysis | \$\$ | Exists | | | | Yes | |
| R - 235 | The user shall be able to output raw data from the ITCS/MAGICC tracking systems. | High | OPS/Display | \$\$ | Not Sure | | | | Yes | |
| R - 164 | The user shall be able to play back the mission from an operator-selectable start time. | High | OPS/Playback | \$\$ | Partially Exists | | Yes | Yes | | |
| R - 165 | The user shall be able to record real time the trajectory information. | High | OPS/Record | \$\$ | Exists | | | Yes | Yes | |
| R - 163 | The user shall be able to synchronize the countdown to the mission time, via a message interface to the INET. | High | OPS/Synchronization | \$\$ | Does Not Exist | | Yes | Yes | | |
| R - 166 | The user shall be able to iterate the | High | Planner | \$\$ | Exists | | Yes | Yes | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | scenario start. | | Controls | | | | | | | |
| R - 167 | The user shall be able to iterate the scenario re-start. | High | Planner Controls | \$\$ | Exists | | Yes | Yes | | |
| R - 151 | The user shall be able to synchronize vehicle patterns. | High | Planner Features | \$\$ | Exists | | Yes | | | |
| R - 169 | The user shall be able to modify and play back a modified scenario from an operator-selectable time. | High | Planner Features | \$\$ | Exists | | Yes | Yes | | |
| R - 170 | The user shall be able to plan functions in a standalone mode on a laptop personal computer. | High | Planner Features | \$\$ | Exists | | Yes | Yes | | |
| R - 171 | The user shall be able to rehearse in a standalone mode on a personal computer. | High | Planner Features | \$\$ | Exists | | Yes | Yes | | |
| R - 172 | The user shall be able to run an INET simulator such that it is possible to run in a standalone mode. | High | Planner Features | \$\$ | Partially Exists | | Yes | Yes | | |
| R - 173 | The user shall be able to run an INET simulator such that it is possible to view simulated messages when running in standalone mode. | High | Planner Features | \$\$ | Partially Exists | | Yes | Yes | | |
| R - 174 | The user shall be able to run the INET SIM demon to kick off the simulator. | High | Planner Features | \$\$ | Partially Exists | | Yes | Yes | | |
| R - 211 | The user shall be able to add range | High | Planner | \$\$ | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|-----------------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | sensors, or any other sensors. | | Features | | | | | | | |
| R - 213 | The user shall be able to make telemetry assignments | High | Planner Features | \$\$ | Exists | | Yes | | | |
| R - 214 | The user shall be able to make surveillance assignments | High | Planner Features | \$\$ | Partially Exists | | Yes | | | |
| R - 229 | The user shall be able to produce time marks. | High | Planner Features | \$\$ | Exists | | Yes | | | |
| R - 230 | The user shall be able to generate the manually controlled aerial targets profile using the scenario planner. | High | Planner Features | \$\$ | Exists | | Yes | | | |
| R - 7 | The user shall be able to generate scenario files that can be transferred to other SP systems in binary format. | High | Planner Features | \$\$ | Exists | | Yes | | | |
| R - 10 | The user shall be able to export scenario files in generic text format. | High | Planner Features | \$\$ | Partially Exists | | Yes | | | |
| R - 12 | The user shall be able to post scenario files to the web in a format to be determined. | Medium | Planner Features | \$\$ | Does Not Exist | | Yes | | | |
| R - 145 | The user shall be able to generate alternate scenario plan definitions at a time T+ x, where x is a user-defined number. | High | Planning/Contingency | \$\$ | Does Not Exist | | Yes | | | |
| R - 15 | The user shall be able to assign sensors (to include timing and | High | Planning/Sens or Assignment | 0 | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | tracking responsibility) within a scenario. | | | | | | | | | |
| R - 189 | The user shall provide data to prepare a report to document lessons learned. | High | Post OPS | | Partially Exists | | Yes | | | |
| R - 58 | The user shall be able to translate missile trajectory, target, and ship auxiliary as a unit. | High | Replanning | \$\$ | Does Not Exist | | Yes | | | |
| R - 59 | The user shall be able to rotate the missile trajectory, target, and ship auxiliary as a unit. | High | Replanning | \$\$ | Does Not Exist | | Yes | | | |
| R - 117 | The user shall be able to rotate scenarios. | High | Replanning | \$\$ | Does Not Exist | | Yes | | | |
| R - 118 | The user shall be able to translate scenarios. | High | Replanning | \$\$ | Does Not Exist | | Yes | | | |
| R - 83 | The user shall be able to print a Sensor ID/Vehicle ID form. | High | Reporting | \$\$ | Does Not Exist | | Yes | | | |
| R - 190 | The user shall provide data to support the following events, to include sensor acquisition and tracking: Mission Control Panel (MCP) -> Mission Readiness Review -> Mission Rehearsal -> Flight test -> 60-day review. | High | Reporting | \$\$ | Does Not Exist | | Yes | | | Yes |
| R - 191 | The user shall be able to print a Mission Checklist. | High | Reporting | \$\$ | Does Not Exist | | Yes | | | |
| R - 209 | The user shall be able to print a | High | Reporting | \$\$ | Does Not | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|--------------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| | timeline document as a graph or table. | | | | Exist | | | | | |
| R - 220 | The user shall be able to output to a file Vehicle reports, describing selected vehicle location vs. time, in ASCII text format. | High | Reporting | \$\$ | Partially Exists | | Yes | | | |
| R - 221 | The user shall be able to output to an ASCII file Waypoint reports containing time and performance. | High | Reporting | \$\$ | Partially Exists | | Yes | | | |
| R - 231 | The user shall be able to transfer data to a Microsoft Excel spreadsheet. | High | Reporting | \$\$ | Partially Exists | | Yes | | | |
| R - 154 | The user shall be provided a sensor assignment timeline graph. | High | Sensor Analysis | \$\$ | Does Not Exist | | Yes | | | |
| R - 306 | The user shall be able to view vehicle vs. maximum range, in tabular or graphical format, coverage within each scenario. | High | Sensor Analysis | \$\$ | Does Not Exist | | Yes | | | |
| R - 308 | The user shall be able to identify additional instrumentation required supporting range safety operations within each scenario. | High | Sensor Analysis | \$\$ | Does Not Exist | Yes | Yes | | | |
| R - 307 | The user shall be able to view times of detection in tabular or graphical format within each scenario. | High | Sensor Analysis/Planning | \$\$ | Does Not Exist | | Yes | | | |
| R - 276 | The user shall be able to load the location of radars (to include fixed | High | Sensor Display | \$\$ | Partially Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | and mobile platforms) within the mapped test area location by hooking an icon and getting amplified information. | | | | | | | | | |
| R - 281 | The user shall be able to load the location of each air aux sensor participant (to include altitude, latitude, longitude) within the mapped test area location. | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 282 | The user shall be able to load the location of each surface aux sensor participant within the mapped test area location. | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 176 | The user shall be able to input Target Support Position (TSP) for all the Aux Sensors | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 180 | The user shall be able to import a unique checklist for Aux sensors for each mission | High | Sensors/Aux | \$\$ | Does Not Exist | | Yes | | | |
| R - 179 | The user shall be able to run through the Aux Sensor checklist in simulation mode verifying all systems go at the various time checks up to weapon launch. | High | Sensors/Aux | \$\$ | Does Not Exist | | | | Yes | |
| R - 185 | The user shall be able to modify the Aux Sensor checklist. | High | Sensors/Aux | \$\$ | Does Not Exist | | | | Yes | |
| R - 187 | The user shall be able to incorporate status updates with all OPS participants, keeping them on | High | Sensors/Aux | \$\$ | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | time. | | | | | | | | | |
| R - 188 | The user shall be able to coordinate development of the Flight Test Plan (FTP) with the Aux Sensors. | High | Sensors/Aux | \$\$ | Does Not Exist | | | | | Yes |
| R - 332 | The user shall be able to view the location of each air aux sensor participant (to include altitude, latitude, longitude) within the mapped test area location. | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 333 | The user shall be able to view the location of each surface aux sensor participant within the mapped test area location. | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 304 | The user shall be able to view Test Support Positions (TSPs) for each mobile air aux sensor participant within each scenario. | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 305 | The user shall be able to view TSPs for each mobile surface aux sensor participant within each scenario. | High | Sensors/Aux | \$\$ | Exists | | Yes | | | |
| R - 52 | The user shall be able to analyze radar tracking using link margin, sensor coverage, and tradeoffs if there are gaps. | High | Sensors/Planning | \$\$ | Exists | | | | | Yes |
| R - 309 | The user shall be able to manually enter hardware parameters within the TM support plan. | High | TM Planning | \$\$\$ | Does Not Exist | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 310 | The user shall be able to manually enter bandwidth limits of the narrowband receivers in each Receiver-Combiner (RC) combination within TM support plan. | High | TM Planning | \$\$\$ | Partially Exists | | Yes | | | |
| R - 311 | The user shall be able to manually enter bandwidth limits of the wideband receivers in each Receiver-Combiner (RC) combination within TM support plan. | High | TM Planning | \$\$\$ | Partially Exists | | Yes | | | |
| R - 312 | The user shall be able to manually enter recording capability data rates of the data recorders area of interest within the TM support plan. | High | TM Planning | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 313 | The user shall be able to manually enter recording capability recording time limits of the data recorders area of interest within the TM support plan. | High | TM Planning | \$\$\$ | Does Not Exist | | Yes | | | |
| R - 315 | The user shall be able to manually enter time of intercept required for detection within the plot for the TM support plan. | High | TM Planning | \$\$\$ | Exists | | Yes | | | |
| R - 317 | The user shall be able to manually enter minimum SNR required for detection within the plot for the TM support plan. | High | TM Planning | \$\$\$ | Partially Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|------------------|-------------------|---------------|----------------|--------------------|---------------|
| R - 318 | The user shall be able to manually enter minimum SNR required for processing within the plot for the TM support plan. | High | TM Planning | \$\$\$ | Partially Exists | | Yes | | | |
| R - 316 | The user shall be able to manually enter time of intercept required for processing within the plot for the TM support plan. | High | TM Planning | \$\$\$ | Partially Exists | | Yes | | | |
| R - 110 | The user shall be able to analyze link margins. | High | TM Planning | \$\$\$ | Partially Exists | | Yes | | | |
| R - 314 | The user shall be able to display plots showing the SNR of the telemetry signal from the target and interceptor as a function of time. | High | TM Planning | \$\$\$ | Exists | | Yes | | | |
| R - 272 | The user shall be able to load target launch points (GOG files) within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 274 | The user shall be able to load the interceptor launch points (GOG files) within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 277 | The user shall be able to load the location of Firing Unit elements within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 278 | The user shall be able to load the location of intercept points (to | High | Trajectory | 0 | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|--|---------------|---------------------|------------|-------------|-------------------|---------------|----------------|--------------------|---------------|
| | include altitude, latitude, longitude) within the mapped test area location. | | | | | | | | | |
| R - 279 | The user shall be able to load the target ground tracks from launch to intercept within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 280 | The user shall be able to load the interceptor ground tracks from launch to intercept within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 323 | The user shall be able to view target launch points (GOG files) within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 325 | The user shall be able to view the interceptor launch points (GOG files) within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 328 | The user shall be able to view the location of Firing Unit elements within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 329 | The user shall be able to view the location of intercept points (to include altitude, longitude, latitude) within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 330 | The user shall be able to view the | High | Trajectory | 0 | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|-----------|---|---------------|---------------------|------------|----------------|-------------------|---------------|----------------|--------------------|---------------|
| | target ground tracks from launch to intercept within the mapped test area location. | | | | | | | | | |
| R - 331 | The user shall be able to view the interceptor ground tracks from launch to intercept within the mapped test area location. | High | Trajectory | 0 | Exists | | Yes | | | |
| R - 54 | The user shall be able to import nominal target trajectories. | High | Trajectory/Model | \$ | Exists | | Yes | | | |
| R - 57 | The user shall be able to import monte carlo missile trajectories. | Medium | Trajectory/Model | \$ | Does Not Exist | | Yes | | | |
| R - 198 | The user shall be able to create the TBM Model used with the Scenario Planner. (Generated outside of the Planner.) | High | Trajectory/Model | \$ | Exists | | Yes | | | |
| R - 298 | The user shall be able to view flight termination criteria in tabular format for the target within each scenario. | High | Visual Aids | 0 | Exists | | Yes | | | |
| R - 299 | The user shall be able to view flight termination criteria for the intercept or within each scenario as GOG files. | High | Visual Aids | 0 | Exists | | Yes | | | |
| R - 300 | The user shall be able to view flight boundaries and associated hazard debris footprints for the target within each scenario. | High | Visual Aids | 0 | Exists | | Yes | | | |
| R - 301 | The user shall be able to view | High | Visual Aids | 0 | Exists | | Yes | | | |

| Object ID | User Requirements for the PMRF Scenario Planner | User Priority | Functional Category | Cost To Do | Rqmt Status | Pre-Planning Rqmt | Planning Rqmt | Rehearsal Rqmt | Real-Time Ops Rqmt | Post-Ops Rqmt |
|------------------|---|----------------------|----------------------------|-------------------|--------------------|--------------------------|----------------------|-----------------------|---------------------------|----------------------|
| | flight termination boundaries and associated hazard debris footprints for the interceptor within each scenario. | | | | | | | | | |