# RMI/SIR – Naval Industrial Fires On/Near Vessels
### (IAW OPNAV M-5102.1 & OPNAV M-8010 Rev1)

Guidance regarding general information needed to complete RMI investigations, use the following:

(1) In RMI, under Investigations on left tab menu, click "Worksheet".
(2) Fill in selections for "Ground" "Ship Availability Fire" under Event Data and Event Objects. Click "Generate Event Worksheet".
(3) Once generated, this will populate all of the information needed to complete the report not further explained in this selection guide. This can be exported to MS Word/PDF and printed for use during investigation.

| # | Field (Page) | Selection |
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| 1 | **Event Investigation Page** | Naval Industrial Fires involving ships will be reported under the "Ground" Category in RMI.<br>   - Investigation Type will be either "Mishap" or "Hazard".<br>   - Subcategory Tier 1 will always be "Industrial and Occupational".<br>   - Event Type Tier 1 will always be "Ship Availability Fire".<br><br>**Investigating Component:** \*    US Navy<br><br>**Investigation Owner:** \*    US Navy<br><br>**Investigation Type:** \*    Mishap<br><br>**Category:** \*    Ground<br><br>**Sub-Category Tier 1:** \*    Industrial and Occupational<br><br>**Event Type Tier 1:** \*   Definitions & Examples    Ship Availability Fire<br><br>**Cross-Category:** \*    None<br><br>**Mishap Class:** \*    E<br><br>**Event Date, Local:** \*    01 OCT 2022<br><br>**Event Duty Status:** \*    ◉ On-Duty   ○ Off-Duty<br><br>**Did the event occur on base?** \*    ◉ Yes   ○ No   ○ Unable to Determine<br><br>**Property Damage Thresholds for Mishap Class:**<br>Class A - Greater Than $2.5 Million<br>Class B - $600,000 - $2.5 Million<br>Class C - $60,000 - $600,000<br>Class D - $25,000 - $60,000<br>Class E - Less than $25,000<br><br>\*\*\*If exact figure is unknown at the time of reporting, estimate high.\*\*\*<br><br>\*\*\* Fires not meeting Class A through D Mishap criteria, investigate and report as either a Class E Mishap or HAZREP.\*\*\* |

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| 2 | **<u>General Information Page</u>** | - <span style="color:red">Event Type Tier 1 will always be "Ship Availability Fire".</span><br>- <span style="color:red">Event Type Tier 2 will be specific class of fire (Class A, B, C, D, K)</span><br><br>Event Type:    Tier 1: `Ship Availability Fire`<br><br>     Tier 2: `Fire Class K`<br><br>- <span style="color:red">Unit Control Number is a locally assigned tracking number managed by the organization/local Safety Office.</span><br><br>Unit Control Number: 🛈    `535538`<br><br>- <span style="color:red">For all events pertaining to this guidance, Naval Sea Systems Command (N00024), will be the Convening Authority.</span><br><br>Convening Authority Tier 1:    🛡 US Navy<br><br>Convening Authority Tier 2: 🛈    `Naval Sea Systems Command (N00024)`<br><br>- <span style="color:red">Activity should indicate the specific class of fire (A-Ordinary Combustable Materials, B-Combustable/Flammable Liquid/Gases, C-Electrical, D-Combustable Metals, K-Fire in Cooking Appliances that Involve Combustable Cooking Grease/Oils) and where the mishap occurred.</span><br>- <span style="color:red">Damaged/Broken/Injured should describe injuries or damaged materials. (For Damaged materials, these items need to represented as Objects on the Object Page with costs associated)</span><br>- <span style="color:red">Outcome should specify estimated damage costs or injuries experienced.</span><br><br>WHAT WAS THE ACTIVITY? *   `Class (A, B, C, D, K) Shipboard / Shipyard Fire`<br>WHAT HAPPENED? *   `Fire reported in Galley`<br>WHAT WAS DAMAGED/BROKEN/INJURED? *   `Grease Fire from fryer`<br>WHAT WAS THE OUTCOME? *   `$100 Damage to fryer, No Injuries` |
| 3 | **<u>Location Page</u>** | - <span style="color:red">General Location Tier 1 will be "Ship (In or On)" for fires on the hull or "Industrial Facility, Ship Maintenance" for fires within 35' of the hull.</span><br>- <span style="color:red">General Location Tier 2 and 3 will depend on location of fire.</span><br>- <span style="color:red">Location Description should state (1) Ship Status (2) Installation/Facility and (3) Location specifics as applicable.</span><br><br>General Location Tier 1: *   `Ship (In or On)`<br><br>General Location Tier 2: *   `Habitability`<br><br>General Location Tier 3: *   `Galley`<br><br>Event Ship Name: *   `BENFOLD (DDG 65)`<br><br>Dry Dock/Pier Number:   `4`<br><br>Compartment Number:   `2-115-1-L`<br><br>Location Description *(optional)*: 🛈<br>`Availability, Norfolk Naval Shipyard, Main Galley`<br><br><span style="color:red">OR</span><br><br>General Location Tier 1: *   `Industrial Facility, Ship Maintenance`<br><br>General Location Tier 2: *   `Ship Building/Repair`<br><br>General Location Tier 3: *   `Dry Dock`<br><br>Dry Dock/Pier Number:   `4`<br><br>Location Description *(optional)*: 🛈<br>`Availability, Norfolk Naval Shipyard, Dry Dock` |

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| | | - "Base where Event Occurred or Nearest Base:" should specify specific installation or facility where industrial fire occurred. |



***If you are having issues with the Google Map, use the MGRS Coordinates provided on Section 6 of this Selection Guide.***

| 4 | **Objects Page** | - When listing Objects, the first Object represented should be the ship itself. All other involved equipment must be added as Objects after the ship. |



- On the Object Information page, select "Yes" to "Was there a fire or explosion?" in order to populate the "Fire/Explosion" page.



- On the Ship page, enter in the name of the ship involved.

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| Ship Class: | Ships (USN/USNS), Guided Missile Destroyer |
| Ship Name: | BENFOLD (DDG 65) |
| Ship Hull Number: | 65 |
| Ship UIC: | 21940 |
| Ship Disposition: | Active, in Commission |
| Homeport: | Yokosuka, Japan |

- On the Fire/Explosion page: (1) Select point of origin of fire. (2) Select A/B/C/D/K from the classification dropdown. (3) Select ignition source.

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| What was the point of origin as determined by Fire Investigators? | Open Flame/Welding Equipment |
| What was the initial combustible/flammable material? ℹ | Oil Saturated Material (Residue) |
| What was the primary ignition source? | Flame or Burning Substance (includes Cigarettes) |

- If reporting damage, ensure that the costs are added in with the object.
- Whether the cost is to the tax payer or the contractor, we need to have it as a minimum of Class E mishap with the cost of $1, if the cost is unknown. If there is cost to the gov't or they know the cost of the mishap then they can put that number into the system but default will always be $1 unless otherwise known.

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| 🗐 🗑 | 2 | Furnishings/Appliances, Kitchen Supplies | USN ◉ | NORFOLK NSY | Destroyed | $100 |

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| | | - On the Object Information page for subsequent Objects listed, ensure NSN and EIC are completed.<br>- If NSN's and EIC's are unknown, select "Other, User Defined" under EIC and add (1) Model and (2) Part numbers in the "Describe Other". <br><br>National Stock Number (NSN): *(optional)* `0000` - `00` - `000` - `0000CM`<br><br>Equipment ID Code (EIC) Tier 1: *(optional)* `OTHER, USER DEFINED` ⌄<br><br>Describe Other: *(optional)* `model/part #/equipment ID` |
| 5 | **Sequence of Events** | Sequence of Event: `Spell Check`  Detailed Instructions<br><br>On 2021-10-01 at 0000, Class K fire reported in the galley aboard USS Benfold while in availability at NNSY. While frying food in the galley, the grease / cooking oil caught fire. Fire was detected and extinguished using fire extinguisher in galley. Ignition source was popping oil that was ignited by the open flame. Damage to fryer in valued at $100. No injuries reported.<br><br>- Sequence of Events should include:<br> o Ensure that the Sequence of Events has at least 3-4 complete sentences that answers Who, What, When, and Where. This is a chronological narrative of significant events and/or actions that lead up to the Event. Times of significant events and/or actions should be integrated into the write-up. This gives our analyst a clear picture to refer back to when doing analysis.<br> o Location and Origin of Fire<br> o How the Fire was detected<br> o Fire Classification (A, B, C, D, K)<br> o Ignition Source<br> o Extinguishing Method and Agency<br> o Response Times & PPE Involved (if applicable)<br> o Injuries (if applicable)<br> o Damaged/Involved Equipment (if applicable)<br> o Work Shift (1st, 2nd, 3rd, Holiday or Weekend)<br> o Prime Contractor / Sub Contractor (LMA) (If Applicable)<br> o AIT Company |
| 6 | **MGRS Coordinates** | Use the following examples for MGRS (Military Grid Reference System) Coordinates to represent the location on the Google Map:<br><br>**LOCATION COORDINATES**<br><br>Latitude / Longitude: * `DD MM.MMM` ○ N(+) `DDD MM.MMM` ○ E(+)<br>       DD MM.MMM ○ S(-)   DDD MM.MMM ○ W(-)<br><br>MGRS: * ⓘ `_____`<br><br>Examples would include the following:<br>(1) TRF Bangor/Puget Sound Naval Shipyard/NWRMC - 10T ET 28051 67880<br>(2) Vigor Industrial - 10T ER 21903 45797<br>(3) NASSCO, BAE Systems CA/SWRMC - 11S MS 86468 17323<br>(4) Pearl Harbor Naval Shipyard - 4Q FJ 08628 61816<br>(5) Marinette Marine - 16T DQ 51249 94208<br>(6) SUPSHIP Golf Coast/Ingalls Shipbuilding MS - 16R CU 48698 58808<br>(7) Austal - 16R DU 01194 96157<br>(8) Bath Iron Works/SUPSHIP Bath - 19T DJ 34437 61766<br>(9) Portsmouth Naval Shipyard - 19T CH 58364 71223<br>(10) GD Electric Boat/SUPSHIP Groton - 18T YL 44386 81147<br>(11) Huntington Ingalls VA/SUPSHIP Newport News/MARMC/NASSCO, BAE Systems VA/Norfolk Naval Shipyard - 18S UF 83723 74976<br>(12) TRF Kings Bay - 17R MQ 45615 05992<br>(13) SERMC - 17R MP 60899 61992<br>(14) NASSCO, BAE Systems FL - 17R MP 61270 62291 |