**Engine (2023)**

**Checklist #15**

| **Location:** |       |
| --- | --- |
| **Date:**MM/DD/YY |       |
| **Respondent:**First, Last |       |
| **Reviewed by:**First, Last |       |

**VEHICLE DATA**

|  |  |
| --- | --- |
| Year |  |
| License Plate # |  |
| Engine # |  |
| Engine Type |  |
| Chassis Make |  |
| Chassis Model |  |
| Mileage |  |
| Hours |  |

**GAWR**

|  |  |
| --- | --- |
| Front Axle | 0 |
| Intermediate Axle | 0 |
| Rear Axle | 0 |
| **TOTAL GAWR** | **0** |

**GVW (Equipped)**

|  |  |
| --- | --- |
| Front Axle | 0 |
| Intermediate Axle | 0 |
| Rear Axle | 0 |
| **TOTAL GVW** | **0** |

**PUMP DATA**

|  |  |
| --- | --- |
| Pump Make/Model |   |
| Pump Engine Make/Model |   |
| Foam Unit Make/Model |   |
| Pump Hours |   |
| Date of Last Pump Test |   |
| GPM at Minimum NWCG Typing Performance PSI |    \_\_\_\_\_\_\_\_\_GPM @\_\_\_\_\_\_\_\_\_PSI |

**For the National Preparedness Review, you will need to have the following items available for review:**

| **CHECKLIST ITEM #** | **DOCUMENTATION** |
| --- | --- |
| Various | *Fire Equipment Maintenance Procedure and Record* (*FEMPR*) |
| Various | Vehicle logbook/maintenance records/annual weight slips |
| 27, 28, 36-39, 41 | Documentation of listed items |
| 31 | Employee EPAPs |
| 32, 33 | Risk assessments (RAs) |
| 34 | Tailgate safety session/6 Minutes for Safety documentation |
| 42 | CDL for drivers (where applicable) |
| 43 | Required PPE |
| 48 | Documents listed |
|  | [*BLM Standards for Fire Training and Workforce Development (BSFTWD)*](https://www.nifc.gov/sites/default/files/blm/training/Stds_Trng_WFD.pdf) |
|  | [*Interagency Standards for Fire and Fire Aviation Operations*](https://www.nifc.gov/standards/guides/red-book) |

| **CHECKLIST ITEM #** | **CHECKLIST REFERENCES** |
| --- | --- |
| 36 | [Employee Orientation Checklist](https://www.nifc.gov/standards/blm-preparedness-review)  |

**GENERAL CONDITION**

***Key Code: E = Exceeds Standard, M = Meets Standard, NI = Needs Improvement, NR = Not Reviewed***

| **ITEM** | **DESCRIPTION** | **CODE****(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 1 | Equipment Exterior*[RB Ch 2]* |  |  |
|  | 1. Clean and waxed
 |       |       |
|  | 1. Free of debris
 |       |       |
|  | 1. Items secured
 |       |       |
|  | 1. Windows and mirrors cleaned
 |       |       |
|  | 1. Mechanical systems in good working order
 |       |       |
| 2 | Equipment Interior*[RB Ch 2]* |  |  |
|  | 1. Cab and compartments free of dirt and debris
 |       |       |
|  | 1. Cab free of loose items
 |       |       |
|  | 1. Equipment stored in appropriate compartments and organized
 |       |       |
|  | 1. Windows and mirrors cleaned
 |       |       |
|  | 1. Mechanical systems in good working order
 |       |       |

**FIRE PACKAGE**

***Key Code: E = Exceeds Standard, M = Meets Standard, NI = Needs Improvement, NR = Not Reviewed***

| **ITEM** | **DESCRIPTION** | **CODE****(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 3 | Vehicle data completed per FEMPR instructions.*[FEMPR]* |       |       |
| 4 | Pump maintenance records current and documented in the *Fire Equipment Maintenance Procedure Record.**[FEMPR]* |       |       |
| 5 | Pump operation and performance meets manufacturer and agency specifications.*[FEMPR]* |       |       |
| 6 | Annual flow test on pump is documented.*[FEMPR]* |       |       |
| 7 | Pump gauges are in working order.*[FEMPR]* |       |       |
| 8 | Water valves are in working order.*[FEMPR]* |       |       |
| 9 | Fuel, water, and air filters are serviceable.*[FEMPR]* |       |       |
| 10 | Fluid levels meet manufacturer specifications.*[FEMPR]* |       |       |
| 11 | Foam unit operation performance meets manufacturer and agency specifications.*[Engine Operator Course; FEMPR]* |       |       |
| 12 | Foam gauges are in working order.*[FEMPR]* |       |       |
| 13 | Foam valves are in working order.*[FEMPR]* |       |       |
| 14 | Foam system operational.*[FEMPR]* |       |       |
| 15 | Vehicle has owner’s and operator’s manuals for both fire package and chassis.*[FEMPR]* |       |       |
| 16 | Annual gross vehicle weight (GVW) slip from a certified scale is documented in logbook and meets vehicle specifications.*[RB Ch 14, FEMPR]* |       |       |
| 17 | Tires |  |  |
|  | 1. Comprehensive (i.e., internal) tire inspections of all tires, including spare tires, completed during required annual inspections/service and at 10,000-mile intervals.

*[RB Ch 2]*  |       |       |
|  | 1. Comprehensive inspections completed by tire service technicians and documented in the Tire Log.

*[RB Ch 2]* |       |       |
|  | 1. Tire speed rating sticker with speed limitation is displayed in the cab in a location easily viewed by the operator. If the vehicle has multiple makes or models of tires, the sticker displays the most limiting speed rating.

*[BLM-EA-2017-01]* |       |       |
| 18 | Preventive and historical maintenance checks are documented and current using the *Fire Equipment Maintenance Procedure and Record* (FEMPR) forms and process.*[RB Ch 2]* |       |       |
| 19 | Engine has a complete and documented BLM standard inventory (NUS).*[RB Ch 2]* |       |       |
| 20 | Familiar with BLM Fire Equipment Improvement and Deficiency Report System and equipment modification procedures.*[RB Ch 2]* |       |       |
| 21 | Engine Use Report (EUR) is completed daily as part of the *FEMPR* and entered monthly into the [EUR SharePoint](https://doimspp.sharepoint.com/sites/blm-fa/fire-operations/SitePages/Engine-Use-Reporting-%28EUR%29.aspx). *[RB Ch 2]* |       |       |
| 22 | Equipment identifier is displayed on the front, rear, each side, and on the top of the equipment. *[RB Ch 2; FA-IM-2021-004; FA-IM-2021-004.a1]* |       |       |
| 23 | Location-based services (LBS) satellite terminal is operational and secured to the equipment. All data in the vehicle tracker portal (VTP) matches the equipment data and meets the fire equipment identification and numbering standard. *[RB Ch 2; FA-IM-2021-004; FA-IM-2021-004.a1]* |       |       |
| 24 | Fusees and other similar ignition devices, are not worn or degraded, are stored properly, not stored with flammable liquids and fuels in the same compartment and should be identified in a highly visible manner.*[NWCG Standards for Transporting Fuel, PMS 442]* |       |       |
|  | * If fuel or other hazardous materials must be transported on the engine, see *NWCG Standards for Transporting Fuel,* pp. 76-79*,* for requirements.
 |  |  |
| 25 | All fuel containers (including SIGG™ bottles, Dolmar™ containers, etc.) are secured so that they will not fall over or move while being transported, and location is identified in a highly visible manner and properly vented.*[NWCG Standards for Transporting Fuel, PMS 442]* |       |       |
|  | * If fuel or other hazardous materials must be transported on the engine, see *NWCG Standards for Transporting Fuel,* pp. 76-79*,* for requirements.
 |  |  |
| 26 | Engine meets agency standards.  |  |  |
|  | 1. Non-skid surface

*[OSHA 29 CFR 1910]* |       |       |
|  | 1. Fire extinguisher service is current, checked monthly, and location is identified in a highly visible manner.

*[H-1112-1]* |       |       |
|  | 1. Hazard reflectors/flares

*[*[*DOI Occupational Safety and Health Program - Field Manual*](https://doimspp.sharepoint.com/sites/blm-wo-700/safetyhealthandemergency/Documents/Occupational%20safety%20and%20health%20program%20-%20field%20manual.pdf)*]* |       |       |
|  | 1. First aid/trauma kit is available and appropriate size; location is identified in a highly visible manner.

*[H-1112-1]* |       |       |
|  | 1. Fire First Response Kit is carried in active WCF 600-series fire vehicle.

*[RB Ch 14]* |       |       |
|  | 1. Jack (serviceable for GVW)

*[H-1112-1]* |       |       |
|  | 1. Lug wrench

*[H-1112-1]* |       |       |

**ENGINE ADMINISTRATION**

***Key Code: E = Exceeds Standard, M = Meets Standard, NI = Needs Improvement, NR = Not Reviewed***

| **ITEM** | **DESCRIPTION** | **CODE****(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 27 | Supervisors are familiar with administrative issues and prepare proper documents as required: |  |  |
|  | 1. Time and attendance (Quicktime)
 |       |       |
|  | 1. Crew time reports
 |       |       |
|  | 1. Fire time reports
 |       |       |
|  | 1. Travel vouchers/per diem forms (Concur)
 |       |       |
|  | 1. Accident/injury reporting (CA1/CA2/CA16)/ECOMP
 |       |       |
|  | 1. Credit card purchases and records
 |       |       |
|  | 1. Fleet gas cards
 |       |       |
| 28 | References/paperwork available include: |  |  |
|  | 1. Accident report forms

*[*[*DOI Occupational Safety and Health Program - Field Manual*](https://doimspp.sharepoint.com/sites/blm-wo-700/safetyhealthandemergency/Documents/Occupational%20safety%20and%20health%20program%20-%20field%20manual.pdf)*]* |       |       |
|  | 1. Preventive maintenance records

*[*[*DOI Occupational Safety and Health Program - Field Manual*](https://doimspp.sharepoint.com/sites/blm-wo-700/safetyhealthandemergency/Documents/Occupational%20safety%20and%20health%20program%20-%20field%20manual.pdf)*]* |       |       |
|  | 1. Personnel accident/injury forms

*[*[*DOI Occupational Safety and Health Program - Field Manual*](https://doimspp.sharepoint.com/sites/blm-wo-700/safetyhealthandemergency/Documents/Occupational%20safety%20and%20health%20program%20-%20field%20manual.pdf)*]* |       |       |
|  | 1. Unit maps
 |       |       |
|  | 1. Current *Emergency Response Guidebook*
 |       |       |
|  | 1. Current credit card

*[H-1525-1, Fleet Management Handbook]* |       |       |
| 29 | Supervisors are familiar with safety reporting processes as required: |  |  |
|  | 1. Safety Management Information System (SMIS)

*[RB Ch 7]* |       |       |
|  | 1. SAFENET reporting

*[RB Ch 7]* |       |       |
|  | 1. SAFECOM reporting

*[RB Ch 16]* |       |       |
| 30 | Supervisors are familiar with air cargo transport limitations and requirements including: |  |  |
|  | 1. Purging of gas receptacles

*[NWCG Standards for Aviation Transport of Hazardous Materials]* |       |       |
|  | 1. Air transport manifesting

*[NWCG Standards for Helicopter Operations, Ch 7]* |       |       |
|  | 1. Weight limitations

*[National Interagency Mobilization Guide]* |       |       |
|  | 1. Safe packaging procedures for specialized equipment

*[NWCG Standards for Helicopter Operations, Ch 11]* |       |       |
| 31 | Each employee has reviewed and signed an Employee Performance Appraisal Plan (EPAP) for the current season. See page 19 for eligibility requirements for performance ratings.*[370 DM 430]* |       |       |
| 32 | Risk assessments are completed for all suppression work practices/projects that have potential hazards.*[RB Ch 7]* |       |       |
| 33 | Risk assessments are completed for all non-suppression work practices/projects that have potential hazards.*[RB Ch 7]* |       |       |
| 34 | Firefighters participate in a documented tailgate safety session weekly or at the beginning of each project. May use “6 Minutes for Safety.”*[RB Ch 7]* |       |       |

**ENGINE CREW PERSONNEL MEET THE FOLLOWING STANDARDS**

***Key Code: E = Exceeds Standard, M = Meets Standard, NI = Needs Improvement, NR = Not Reviewed***

| **ITEM** | **DESCRIPTION** | **CODE****(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 35 | BLM-specific engine training and qualification requirements have been met for the following fireline positions:*[RB Ch 2; BSFTWD]* |  |  |
|  | 1. Wildland firefighter
 |       |       |
|  | 1. Senior firefighter
 |       |       |
|  | 1. Lead firefighter
 |       |       |
|  | 1. Assistant engine captain
 |       |       |
|  | 1. Engine captain
 |       |       |
| 36 | All crew personnel have completed Fire Vehicle Driver Orientation (BL-300, once) and/or Fire Vehicle Driver Refresher Training (RT-301, annually).*[RB Ch 2]* |       |       |
| 37 | WCF Class 668 vehicle operators have completed training.*[RB Ch 2]* |       |       |
| 38 | Each employee has attended employee orientation.*[Employee Orientation Checklist]* |       |       |
| 39 | Firefighters have a documentation file for: |  |  |
|  | 1. Current season training

*[RB Ch 13]* |       |       |
|  | 1. Past season fire training

*[RB Ch 13]* |       |       |
|  | 1. Certifications and experience (hardcopy or electronic)

*[RB Ch 13]* |       |       |
|  | 1. Fire experience

*[RB Ch 13]* |       |       |
|  | 1. Task books initiated appropriate to their training needs.

*[RB Ch 13]* |       |       |
|  | 1. Performance evaluations, if required

*[RB Ch 13]* |       |       |
| 40 | Firefighters have access to training materials and equipment. |       |       |
| 41 | Employees are being provided the following mandatory training: |  |  |
|  | 1. Mutual respect/civil rights

 *[RB Ch 2]* |       |       |
|  | 1. Local resource management issues

*[Employee Orientation Checklist]* |       |       |
|  | 1. Roles and responsibilities/chain of command/unit table of organization

*[Employee Orientation Checklist]* |       |       |
|  | 1. First aid

*[RB Ch 2]* |       |       |
|  | 1. CPR

*[RB Ch 2]* |       |       |
|  | 1. Bloodborne pathogens

*[RB Ch 2]* |       |       |
|  | 1. HAZWOPER – Field Awareness

*[RB Ch 2]* |       |       |
|  | 1. BLM Hazard Communications – GHS

*[RB Ch 2]* |       |       |
|  | 1. Defensive driving training

*[RB Ch 2]* |       |       |
|  | 1. Work/rest requirements

*[RB Ch 7]* |       |       |
|  | 1. Driver duty limitations

*[RB Ch 7]* |       |       |
|  | 1. Risk management process

*[RB Ch 7, IRPG]* |       |       |
|  | 1. Risk assessment

*[RB Ch 2]* |       |       |
|  | 1. *Wildland Fire Chainsaws,* S-212, for chainsaw operators

*[RB Ch 13]* |       |       |
|  | 1. Any specific training identified by RA

*[RB Ch 13]* |       |       |
|  | 1. [Fuel Transport Hazardous Materials Training](https://www.fs.usda.gov/t-d/fueltran/training/index.html), if applicable.

[*RB Ch 2*] |       |       |
| 42 | Unit members possess commercial driver’s license where appropriate.*[RB Ch 7]* |       |       |

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

***Key Code: E = Exceeds Standard, M = Meets Standard, NI = Needs Improvement, NR = Not Reviewed***

| **ITEM** | **DESCRIPTION** | **CODE****(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 43 | Required Fireline PPE |  |  |
|  | 1. Wildland fire boots are a minimum of 8-inch-high, lace-type, exterior-leather work boots with melt-resistant, lug soles; Alaska is exempt from the lug sole requirement.

 *[RB Ch 7]* |       |       |
|  | 1. Fire shelter is M-2002, Forest Service specification 5100-606 compliant.
* Regular size fire shelters are not manufactured prior to 2006.

 *[RB Ch 7]* |       |       |
|  | 1. Helmet meets ANSI Z89.1 or equivalent helmet meeting ANSI Z89.1 type 1, class G or NFPA 1977; chinstrap required.

*[RB Ch 7]* |       |       |
|  | 1. Hearing protection is worn by personnel exposed to a noise level in excess of 85db.
* Includes, but is not limited to, chainsaw operators/fallers, pump operators, helibase and aircraft ramp personnel, and wildland fire chemical mixing personnel

*[RB Ch 7]* |       |       |
|  | 1. Goggles/safety glasses/mesh eyewear
* Positions requiring eye protection are nozzle operator, chainsaw operator/faller, helibase and ramp personnel, wildland fire chemical mixing personnel, and positions and/or activities identified in a JHA/RA and meets ANSI Z87.1 standards.
* Eye protection worn during all chainsaw operations including cleaning and fueling (meeting ANSI Z87.1). Steel mesh goggles are allowed during falling, bucking, and brushing operations. Face shield is only required where face protection is identified in a JHA/RA and must meet ANSI Z87.1.

 *[RB Ch 7; RB Erratum]* |       |       |
|  | 1. Long-sleeved, flame-resistant shirt (yellow recommended) is NFPA 1977 compliant.

 *[RB Ch 7]* |       |       |
|  | 1. Flame-resistant trousers are NFPA 1977 compliant.

 *[RB Ch 7]* |       |       |
|  | 1. Gloves
* Leather or leather/flame-resistant combination
* Flame-resistant flight gloves or NFPA-1977-compliant driving gloves can be used by heavy equipment operators, drivers, and fireline supervisors when not using fireline hand tools.
* For helicopter observation flights, flight gloves (type GS/FRP-2), all-leather gloves (without synthetic liners) are acceptable if they provide the wearer with wrist coverage and finger dexterity, or flame-resistant Nomex® and leather design (conforms to Military Specification MIL-DTL-81188C).

 *[RB Ch 7, 16]* |       |       |
|  | 1. Chainsaw operators wear chaps meeting the USFS Specification 6170-4F, 4G, or newer.
* Swampers wear chaps when the need is demonstrated by a risk analysis considering proximity to the sawyer, slope, fuel type, etc.

 *[RB Ch 7]* |       |       |
|  | 1. Additional PPE as identified by local conditions, Safety Data Sheet, or JHA/RA

 *[RB Ch 7]*  |       |       |
|  | 1. Module members are trained to use safety equipment effectively.

*[RB Ch 7, Ch 14]* |       |       |

**RADIO USERS (Law Enforcement, Field-going Personnel)**

***Key Code: E = Exceeds Standard, M = Meets Standard, NI = Needs Improvement, NR = Not Reviewed***

| **ITEM** | **DESCRIPTION** | **CODE****(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 44 | Engine crew has minimum number of mobile and portable radios.*[*[*BLM Fire Engine NUS*](https://doimspp.sharepoint.com/sites/blm-fa/fire-operations/SitePages/NFEP-Policy-Resources.aspx)*]* |       |       |
| 45 | Radio frequencies are posted in the cab. |       |       |
| 46 | Radio equipment checked/updated annually or as changes occur.*[MS-1292, Radio Communications Manual]* |       |       |
| 47 | The help desk (REMEDY) system used for reporting/managing radio and radio-related issues.*[MS-1292, Radio Communications Manual]* |       |       |
| 48 | Repeater location maps and channel/frequency plans are provided upon request.*[MS-1292, Radio Communications Manual]* |       |       |
| 49 | Radio user training provided at least annually.  *[MS-1292, Radio Communications Manual]* |  |  |
|  | 1. Radio training includes use and operation of mobile radios.
 |       |       |
|  | 1. Radio trainings includes operation and use of handheld radios.
 |       |       |
|  | 1. Radio training includes channel/frequency plans.
 |       |       |
|  | 1. Radio training includes user guides.
 |       |       |
| 50 | Knowledge of radio programming (if needed, analog/digital, CTCSS/NAC). *[RB Ch 15]* |       |       |
| 51 | Frequency authorization and use issues have been explained to the employee. *[DM 377, MS 1291]* |       |       |
| 52 | Radio User Comments |  |       |

**COMPLETE CHECKLIST #14, FIREFIGHTER**

**COMPLETE CHECKLIST #20, FUEL TRANSPORT, IF TRANSPORTING HAZARDOUS MATERIALS**