**Engine Module\* (2025)**

**Checklist #15**

\*The Engine Module Checklist now incorporates all items from Checklist #14, Firefighter. Module members are not required to complete Checklist 14 but must fully participate in the engine module review.

| **Location:** |  |
| --- | --- |
| **Date:**  MM/DD/YY |  |
| **Respondents:**  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** |
| --- | --- |
| 1 | [Annual Motor Vehicle Maintenance/Safety Checklist](https://doimspp.sharepoint.com/sites/blm-oc/dbs/eForms%20Library/Forms/AllItems.aspx?id=%2Fsites%2Fblm%2Doc%2Fdbs%2FeForms%20Library%2F1520%2D035%2Epdf&parent=%2Fsites%2Fblm%2Doc%2Fdbs%2FeForms%20Library) |
| 6 | Employee EPAPs |
| 7 | Employee IDPs |
| 8, 9 | Risk assessments (RAs) |
| 10 | Tailgate safety session/6 Minutes for Safety documentation |
| 12 | DI-105 |
| Various | *Fire Equipment Maintenance Procedure and Record* (*FEMPR*) |
| Various | Vehicle logbook/maintenance records/annual weight slips |
| 33 | FUSE |
| 40, 41, 44, 46 | Documentation of listed items |
| 43 | Current Red Card |
| 47 | CDL for drivers (where applicable) |
| 48 | Form 1112-11 |
| 49 | Required PPE |
|  | [*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** |
| --- | --- |
| 42, 46b, 46c | [Employee Orientation Checklist](https://www.nifc.gov/standards/blm-preparedness-review) |

**ENGINE ADMINISTRATION**

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

| **ITEM** | **DESCRIPTION** | **CODE**  **(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 1 | The BLM [1520-35](https://doimspp.sharepoint.com/sites/blm-oc/dbs/eForms%20Library/Forms/AllItems.aspx?id=%2Fsites%2Fblm%2Doc%2Fdbs%2FeForms%20Library%2F1520%2D035%2Epdf&parent=%2Fsites%2Fblm%2Doc%2Fdbs%2FeForms%20Library) Annual Motor Vehicle Maintenance/Safety Checklist is complete and documented ([1520-35a](https://doimspp.sharepoint.com/sites/blm-oc/dbs/eForms%20Library/1520-035a.pdf?CT=1580348706134&OR=ItemsView) for construction equipment).  *[H-1525-1, Fleet Management Handbook]* |  |  |
| 2 | 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 (e.g., OF-288) |  |  |
|  | 1. Travel vouchers/per diem forms (Concur) |  |  |
|  | 1. Accident/injury reporting (CA1/CA2/CA16)/ECOMP |  |  |
|  | 1. Credit card purchases and records |  |  |
|  | 1. Fleet fueling/repair charge card |  |  |
| 3 | References/paperwork available include (paper copies required unless otherwise specified): |  |  |
|  | 1. Accident report forms   *[*[*DOI Occupational Safety and Health Program - Field Manual*](https://doimspp.sharepoint.com/sites/blm-hq-740-safetyhealthemergency/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-hq-740-safetyhealthemergency/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-hq-740-safetyhealthemergency/Documents/Occupational%20safety%20and%20health%20program%20-%20field%20manual.pdf)*]* |  |  |
|  | 1. Unit maps (paper and/or digital) |  |  |
|  | 1. Current *Emergency Response Guidebook* |  |  |
|  | 1. Current fleet fueling/repair charge card   *[H-1525-1, Fleet Management Handbook]* |  |  |
| 4 | Module members 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]* |  |  |
| 5 | Module members 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 Standards for Resource Mobilization]* |  |  |
|  | 1. Safe packaging procedures for specialized equipment   *[NWCG Standards for Helicopter Operations, Ch 11]* |  |  |
| 6 | 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]* |  |  |
| 7 | Each employee has a signed individual development plan (IDP) on file.  *[2023.11.02 IDP Requirement Memo; 370 DM 410]* |  |  |
| 8 | Risk assessments are completed for all suppression work practices/projects that have potential hazards.  *[RB Ch 7]* |  |  |
| 9 | Risk assessments are completed for all non-suppression work practices/projects that have potential hazards.  *[RB Ch 7]* |  |  |
| 10 | Firefighters participate in a documented tailgate safety session weekly or at the beginning of each project. May use “6 Minutes for Safety.”  *[H-1112-1, Ch 2; RB Ch 7]* |  |  |
| 11 | All module members participate in the unit’s fitness program.  *[RB Ch 2]* |  |  |
| 12 | All module members comply with established property control/management measures.  *[BLM Manual 1520/DI-105]* |  |  |

**GENERAL CONDITION**

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

| **ITEM** | **DESCRIPTION** | **CODE**  **(E/M/NI/NR)** | **REMARKS** |
| --- | --- | --- | --- |
| 13 | 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 |  |  |
| 14 | 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** |
| --- | --- | --- | --- |
| 15 | Vehicle data completed per FEMPR instructions.  *[FEMPR]* |  |  |
| 16 | Pump maintenance records current and documented in the *Fire Equipment Maintenance Procedure Record.*  *[FEMPR]* |  |  |
| 17 | Pump operation and performance meets manufacturer and agency specifications.  *[FEMPR]* |  |  |
| 18 | Annual flow test on pump is documented.  *[FEMPR]* |  |  |
| 19 | Pump gauges are in working order.  *[FEMPR]* |  |  |
| 20 | Water valves are in working order.  *[FEMPR]* |  |  |
| 21 | Fuel, water, and air filters are serviceable.  *[FEMPR]* |  |  |
| 22 | Fluid levels meet manufacturer specifications.  *[FEMPR]* |  |  |
| 23 | Foam unit operation performance meets manufacturer and agency specifications.  *[Engine Operator Course; FEMPR]* |  |  |
| 24 | Foam gauges are in working order.  *[FEMPR]* |  |  |
| 25 | Foam valves are in working order.  *[FEMPR]* |  |  |
| 26 | Foam system operational.  *[FEMPR]* |  |  |
| 27 | Vehicle has owner’s and operator’s manuals for both fire package and chassis.  *[FEMPR]* |  |  |
| 28 | Annual gross vehicle weight (GVW) slip from a certified scale is documented in logbook and meets vehicle specifications.  *[RB Ch 14, FEMPR]* |  |  |
| 29 | Comprehensive (i.e., internal) tire inspections of all tires, including spare, are completed (during required annual inspections/service and at 10,000-mile intervals) and documentation in the FEMPR “Tire Log” is complete and accurate.  *[RB Ch 2; H-1525-1, Fleet Management Handbook]* |  |  |
| 30 | Preventive and historical maintenance checks are documented and current using the *Fire Equipment Maintenance Procedure and Record* (FEMPR) forms and process.  *[RB Ch 2]* |  |  |
| 31 | Engine has a complete and documented BLM standard inventory (NUS).  *[RB Ch 2]* |  |  |
| 32 | Familiar with BLM Fire Equipment Improvement and Deficiency Report System and equipment modification procedures.  *[RB Ch 2]* |  |  |
| 33 | Engine Use Reporting: Fire Use (FUSE) application is completed daily, or as practicable. FUSE online reporting shall be supplemented with a printed FUSE daily report until able to access the online system.  *[RB Ch 2]* |  |  |
| 34 | Equipment identifier is displayed on the front, rear, both sides, and on the top of the equipment.  *[RB Ch 2]* |  |  |
| 35 | 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]* |  |  |
|  | * When a new terminal is received, replacement equipment arrives, or an error with the terminal has been identified, the installation, transfer, or repair must be completed in no more than 15 days |  |  |
| 36 | Fluid Sampling: WCF 600 class equipment (Greater than 13999 lb.) has fluid samples of chassis engine oil, coolant, transmission fluid, transfer case oil, front and rear differential oil, and pump engine oil. *[RB Ch 2; FEMPR]* |  |  |
|  | 1. Samples are gathered, submitted, and recorded with the BLM designated fluid analysis lab (currently, Tribologik Laboratories) |  |  |
|  | 1. Fluid sampling is current (required at the annual vehicle safety inspection and/or subsequent fluid changes) |  |  |
|  | 1. Fluid sampling is documented in the FEMPR |  |  |
| 37 | 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 |  |  |
| 38 | Engine meets agency standards. |  |  |
|  | 1. Non-skid surface   *[OSHA 29 CFR 1910]* |  |  |
|  | 1. Engine has a fire extinguisher that is securely anchored, maintained, and visually inspected monthly by a competent person who is capable of recognizing deficiencies and authority to correct the situation. Extinguishers must be serviced/retagged annually by a fire protection specialist. Must be in full view or clearly marked compartment.   *[H-1112-1]* |  |  |
|  | 1. Hazard reflectors/flares   *[*[*DOI Occupational Safety and Health Program - Field Manual*](https://doimspp.sharepoint.com/sites/blm-hq-740-safetyhealthemergency/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 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** |
| --- | --- | --- | --- |
| 39 | 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 |  |  |
| 40 | 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]* |  |  |
| 41 | WCF Class 668 vehicle operators have completed training.  *[RB Ch 2]* |  |  |
| 42 | Each employee has attended employee orientation.  *[Employee Orientation Checklist]* |  |  |
| 43 | Incident qualification card (red card) is current.  *[RB Ch 13]* |  |  |
| 44 | Each module member has an electronic IQCS record that contains: |  |  |
|  | 1. Current season training   *[RB Ch 13]* |  |  |
|  | 1. Past season fire training   *[RB Ch 13]* |  |  |
|  | 1. Certifications   *[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]* |  |  |
| 45 | Firefighters have access to training materials and equipment. |  |  |
| 46 | Employees are being provided the following mandatory training: |  |  |
|  | 1. EEO/Prevention and Elimination of Harassing Conduct, [PB 18-01](https://www.doi.gov/employees/anti-harassment/personnel-bulletin-18-01)   *[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 (section 6)   *[RB Ch 2]* |  |  |
|  | 1. BLM Hazard Communications (HAZCOM) – Globally Harmonized System (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. Hearing conservation   *[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*] |  |  |
| 47 | Unit members possess commercial driver’s license where appropriate.  *[RB Ch 7]* |  |  |
| 48 | Module members have BLM form 1112-11 and a valid current state driver’s license on file if driving a government vehicle or to drive private or rental vehicles for government business.  *[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** |
| --- | --- | --- | --- |
| 49 | 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 sized 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 safety 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]* |  |  |
|  | 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 leg protection that meets NFPA 1977  * Swampers wear leg protection when the need is demonstrated by a risk analysis considering the proximity to the sawyer, slope, fuel type, etc * All other chainsaw leg protection must be removed from service * Chainsaw leg protection shall be maintained according to manufacturer instructions   *[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]* |  |  |
|  | 1. NWCG Incident Response Pocket Guide (IRPG) current version   *[RB Ch 7]* |  |  |

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