

B-23, B-39, C-30, GP-7 MO3 INSPECTION

<i>In-Bound Loadtest Electrical/Mechanical</i>	WORKED BY:
ELECTRICAL	
VERIFY THE OPERATION OF THE GROUND RELAY	
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS	
CHECK OPERATION OF:	
A. HEATING	
COMPLETE THE IN-BOUND LOAD TEST SHEETS	
GROUND RELAY-(TEST THREE TIMES TO VERIFY LOCK-OUT)(DYNAMIC & POWER)	
CHECK THE FOLLOWING FOR PROPER OPERATION:	
A. CREW ALERT	
B. RADIO AND ANTENNA	
C. AXLE ALT. SPEEDO	
D. MU ENGINE SHUTDOWN	
E. FUEL CUT-OFF	
F. TEST WARNING DEVICES	
MECHANICAL	
CLEAN AND SERVICE TOILET AND RESTROOM	<i>M. Monte</i>
DRAIN RETENTION TANK	<i>M. Monte</i>
PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	<i>M. Monte</i>
INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS	<i>M. Monte</i>
INSPECT COOLING SYSTEM:	<i>M. Monte</i>
A: CHECK HOSES AND PIPES FOR LEAKS	<i>M. Monte</i>
CHECK OPERATION OF ENGINE PROTECTION DEVICES:	
A. CRANKCASE PRESSURE	
VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	<i>M. Monte</i>
PERFORM MANUAL AIR BRAKE TEST	<i>M. Monte</i>
Verify Flow Gauge	NOTE: 120-
130 main reservoir is 64 + or - 3,	130-140 main
reservoir is 60 + o	
PERFORM PENALTY BRAKE TEST	
CHECK FOR CORRECT AIR PRESSURE SETTINGS:	
A. MAIN RESERVOIR (130 - 140 PSI)	<i>M. Monte</i>
B. BRAKE PIPE (90 PSI)	
C. EQUALIZING RESERVOIR (90 PSI)	
D. BRAKE CYLINDER (72 - 74 PSI)	
E. COMPRESSOR CONTROL (130 - 140 PSI +/- 5 PSI)	
CHECK FLUID LEVELS BEFORE LOADING:	<i>M. Monte</i>
A: ENGINE OIL	<i>3' low</i>
B: COOLING WATER	
C: AIR COMPRESSOR OIL	<i>Added 3 Gals</i>
TEST OPERATION OF THE FOLLOWING DEVICES:	<i>M. Monte</i>
A. BELL	<i>M. Monte</i>
B. SANDERS (FORWARD, REVERSE, EMERGENCY)	<i>M. Monte</i>
C. RADIATOR SHUTTERS	<i>M. Monte</i>

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Revision Date: 8/18/2010
 Issued By: Tim Scalia

Electrical in House	WORKED BY:
SERVICE THE BATTERIES AND COMPLETE JSP-010	TPG
VERIFY EVENT RECORDER IS WORKING	DWC
CHECK & RECORD THE DATE ON HEAD END DEVICE <i>Not equipped</i>	D.W.C.
COMPLETE THE HEAD END DEVICE CONNECTOR SHEET	—
CHECK THE FOLLOWING EQUIPMENT AND THEIR RELATED GUARDS AND LENSES FOR PROPER OPERATION:	—
CHECK ALL GROUND AND STEP LIGHTS, FRONT AND REAR HEADLIGHTS, DITCH LIGHTS, CAB LIGHTS, GAUGE LIGHTS, NUMBER PLATES, PLATFORM LIGHTS, ALL WARNING AND INDICATOR LIGHTS	D. Lopez
TRACTION MOTORS AND UNDERFRAME	
CHECK THE TRACTION MOTOR LEADS, VERIFY NO LEADS ARE RUBBING ON THE FRAME	—
INSPECT TRACTION MOTOR COVERS AND ENSURE BOLTS ARE IN PLACE AND TIGHT	D. Lopez
CHECK M.U. RECEPTACLE PINS AND LIDS. MAKE NECESSARY REPAIRS	D. Lopez
MAKE SURE M.U. CABLES DO NOT FOUL COUPLERS	D. Lopez

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G. IF THE SEAT MOVEMENT IS IMPEDED, REMOVE SEAT CUSHION AND INSPECT SEAT PAN ROLLER TRACK FOR DEBRIS, MALFUNCTION, OR LACK OF LUBRICATION.	MC
H. INSPECT SEAT RAILS AND REPLACE IF DAMAGED OR WORN BEYOND PROVIDING SECURE, STABLE MOUNTING OF SEAT.	MC
I. INSPECT THE FORE/AFT SEAT POSITIONING TRACK. INSPECT THE SEAT RAILS AND REPLACE IF DAMAGED OR WORN BEYOND PROVIDING SECURE, STABLE MOUNTING OF SEAT.	MC
J. LUBRICATE THE SEAT RAILS WITH SILICONE LUBRICANT.	MC
K. INSPECT THE BACKREST RAKE ADJUSTMENT KNOB. VERIFY THAT THE KNOB ROTATES EASILY TO ADJUST BACKREST ANGLE.	MC
L. INSPECT KNOB FOR CRACKS OR SPLITS AND THAT IT IS SECURELY FASTENED.	MC
M. INSPECT GEAR MECHANISM FOR ANY WEAR OR DAMAGE.	MC
N. ENSURE THAT THE BACKREST MECHANICAL STOP IS INTACT AND FUNCTIONS AS INTENDED-- PREVENTS THE SEAT BACKREST FROM RECLINING BEYOND APPROXIMATELY 45 DEGREES BACKWARDS FROM A VERTICAL POSITION.	MC
O: INSPECT THE LUMBAR SUPPORT ADJUSTMENT LEVER. VERIFY THAT THE ADJUSTMENT LEVER OPERATES EASILY TO ADJUST THE LUMBAR SUPPORT.	MC
P: VERIFY ALL ARMREST FASTENERS ARE SECURE. REPLACE ANY MISSING OR STRIPPED OUT FASTENERS.	MC
Q: INSPECT ARMREST SWIVEL FASTENERS. ENSURE SWIVEL FASTENER IS SECURE ON EACH ARMREST SUCH THAT THE ARMREST IS WITHOUT SIDE TO SIDE MOVEMENT. ARMREST SHOULD SWIVEL TO VERTICAL. ARMREST SHOULD NOT DROP DOWN PAST IT'S ORIGINAL STOP.	MC
R: INSPECT SEAT FABRIC ON SEAT PAN AND BACKREST. INSPECT FOR RIPS, TEARS, OR HOLES. SEAT PAN OR BACKREST COMPONENT MAY BE REPLACED IF THERE IS AN EXCESSIVE RIP, TEAR, OR HOLE.	MC
SEAT PART NUMBERS: Cab Seat, Freight with arms: 2043511 Cab Seat Mid Back: 20425731 Wall Mounted Pedestal: 20435541 Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211 Seat Pedestal Rail Right Side 46": 20422221	
INSPECT AND REPAIR AS REQUIRED:	
A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND SEALS/MIRRORS. ALSO LUBRICATE/CHANGE AS NEEDED	MC
A. CLEAN THE CAB, WINDOWS, AND EQUIPMENT	TDB
COMPLETE WINTERIZATION SHEET (AUGUST - APRIL)	TDB
WASH LOCOMOTIVE ENGINE/ENGINE ROOM/AND AIR COMPRESSOR ROOM	TDB
WASH THE LOCOMOTIVE	TDB

B-23, B-39, C-30, GP-7 MO3 INSPECTION

MECHANICAL IN HOUSE

WORKED BY:

REVIEW LAB CODE AND PERFORM A COMPLETE AIRBOX/CRANKCASE INSPECTION IF A LAB CODE EXISTS

WITH THE ENGINE WARM, PRESSURE TEST COOLING SYSTEM AT 20 PSI FOR 15 MINUTES AND IF THE PRESSURE ON THE GAUGE DOES NOT DROP, THEN NO FURTHER ACTION IS REQUIRED

CHANGE THE FOLLOWING FILTERS AND ASSOCIATED GASKETS:

FUEL SPIN ON FILTERS. EMD ONLY

SOAK BACK FILTER. EMD ONLY

TURBO SPIN ON FILTER. EMD ONLY

COMPLETE FRA INSPECTION (DAILY INSPECTION CHECKLIST)

Maadi
 NA
 NA

CARBODY

INSURE SAND NOZZLES AND HOSES ARE IN PLACE AND SECURED. MAKE SURE THEY ARE ALIGNED WITH WHEEL AND TRACK. INSPECT SAND TRAPS AND REPAIR AS NEEDED.

INSPECT COUPLERS & DRAFT GEARS. MAKE REPAIRS AS NECESSARY

CHECK KNUCKLE CLEARANCE AND KNUCKLE THROWER, MAKE REPAIRS AS NEEDED AND APPLY SPARE KNUCKLES (E AND F TYPE) (2.5")

INSPECT PIN LIFTERS CHECKING FOR PROPER HAND CLEARANCE AND ANTI-CREEP

CHECK SNOWPLOW (IF EQUIPPED) FOR HANDHOLDS AND PROPER DISTANCE

CHECK AUTO BLOWDOWNS FOR PROPER OPERATIONS IN AUTOMATIC MODE

ENSURE SUMP DRAINS ARE OPEN AND FREE OF DEBRIS

J. Black
J. Black
J. Black
J. Black
J. Black
W. Corley
J. Black

TRUCKS

INSPECT WICK BOLT SECUREMENT AND REPAIR IF NECESSARY

CHECK SUSPENSION BEARING OIL LEVEL

CHECK JOURNAL BOX OIL LEVEL (FILL TO POINT OF OVERFLOW)

CHECK GEAR CASES AND INSPECT BULL GEAR (ADD 6lbs. OF GEARCASE GREASE)

CHECK OIL FILLED GEAR CASES AND FILL (RECORD USAGE BELOW)

1 TRACTION MOTOR: OIL USED _____ *Drained & Re-filled*

2 TRACTION MOTOR: OIL USED _____ " "

3 TRACTION MOTOR: OIL USED _____ " "

4 TRACTION MOTOR: OIL USED _____ " "

5 TRACTION MOTOR: OIL USED _____

6 TRACTION MOTOR: OIL USED _____

J. Black
J. Black
J. Black
J. Black
J. Black
J. Black

INSPECT ALL BRAKE HANGERS, HEADS, GUIDES AND STRAPS ENSURING BRAKE SHOES ARE IN LINE WITH WHEELS

J. Black

CAB

CHECK FIRE EXTINGUISHERS, DATE AND TAG. REPLACE IF USED OR OUT OF DATE.

CHECK CAB SEATS FOR PROPER OPERATION INSURING ALL BOLTS ARE IN PLACE AND TIGHT.

CHECK HANDBRAKE AND INSPECT DATE. MAKE REPAIRS AS NECESSARY

M. Goodie
M. Goodie
M. Goodie

MISC

IN ACCORDANCE WITH FRA 229.23. VERIFY AIR GAUGES (+/- 3PSI) (CALIBRATE AT +/- 1PSI, REQUIRES 130 PSI MR)

CHECK ALL FLUID LEVELS, ENGINE OIL, COOLING WATER, AIR COMPRESSOR OIL

DRAIN RETENTION TANK

TOILET MAINTENANCE:

A. INSPECT/REPAIR AS NEEDED TOILET DRAIN VALVE & FLOOR SEALS

D. Goodie
D. Goodie
D. Goodie
D. Goodie
D. Goodie

Cab Seat Inspection:

A. INSPECT THE VERTICAL ADJUSTMENT LEVER. VERIFY THAT THE LEVER OPERATES AND THAT THE SEAT PAN ADJUSTS UP AND DOWN AND DOES NOT DROP SUDDENLY.

B. LUBRICATE PIVOT POINTS

C. INSPECT ROTATION ADJUSTMENT LOCKING PIN. VERIFY THAT THE LOCKING PIN OPERATES (PULL OUT TO RELEASE LOCK) AND THAT THE SEAT ROTATES WHEN UNLOCKED.

D. LUBRICATE THE PIN MECHANISM.

E. SEAT PAN COMPONENTS: INSPECT THE FORE-AFT FINE ADJUSTMENT LEVER.

F. VERIFY THAT THE LEVER SLIDES SIDEWAYS TO UNLOCK SEAT FOR/AFT ADJUSTMENT AND SEAT SLIDES FOR/AFT EASILY

 MC
 MC
 MC
 MC
 MC
 MC

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Out Bound Loadtest Electrical/Mechanical

WORKED BY:

ELECTRICAL

- VERIFY THE OPERATION OF THE GROUND RELAY
- CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)
- WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS
- CHECK OPERATION OF:

A. HEATING

✓ Heater's work *JP Wood*

- COMPLETE THE IN-BOUND LOAD TEST SHEETS
- GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)
- CHECK THE FOLLOWING FOR PROPER OPERATION:

- A. CREW ALERT
- B. RADIO AND ANTENNA
- C. AXLE ALT. SPEEDO
- D. MU ENGINE SHUTDOWN
- E. FUEL CUT-OFF
- F. TEST WARNING DEVICES

JP Wood

JP Wood

MECHANICAL

- CLEAN AND SERVICE TOILET AND RESTROOM
- DRAIN RETENTION TANK
- PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.
- INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS
- INSPECT COOLING SYSTEM:

JP Wood
JP Wood
JP Wood
JP Wood
JP Wood
JP Wood

- A: CHECK HOSES AND PIPES FOR LEAKS
- CHECK OPERATION OF ENGINE PROTECTION DEVICES:

A. CRANKCASE PRESSURE

- VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS
- PERFORM MANUAL AIR BRAKE TEST

JP Wood

Verify Flow Gauge
130 main reservoir is 64 + or - 3,
reservoir is 60 + o

NOTE: 120-
130-140 main

PERFORM PENALTY BRAKE TEST

JP Wood

CHECK FOR CORRECT AIR PRESSURE SETTINGS:

- A. MAIN RESERVOIR (130 - 140 PSI)
- B. BRAKE PIPE (90 PSI)
- C. EQUALIZING RESERVOIR (90 PSI)
- D. BRAKE CYLINDER (72 - 74 PSI)
- E. COMPRESSOR CONTROL (130 - 140 PSI +/- 5 PSI)

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CHECK FLUID LEVELS BEFORE LOADING:

- A: ENGINE OIL
- B: COOLING WATER
- C: AIR COMPRESSOR OIL

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TEST OPERATION OF THE FOLLOWING DEVICES:

- A. BELL
- B. SANDERS (FORWARD, REVERSE, EMERGENCY)
- C. RADIATOR SHUTTERS

JP Wood
JP Wood

JSP-010 (BATTERY MAINTENANCE AND QUALIFICATION)

JOB SPECIFIC PROCESS

Locomotive Type: ALL MODELS
Valid for Road Numbers: (All Models)

Overview: This job process sheet will assist with the maintenance and qualification of batteries.

SPECIAL TOOLS OR EQUIPMENT:

SEQUENCE OF JOB STEPS

Please print your name.
NO signatures

1. Ensure the locomotive is shutdown, discharged, all of the circuit breakers are open and the battery knife switch is open.

Battery Qualification/Maintenance

2. **NOTE: If batteries are dead, connect the charger until the charge rate falls below 10 amps to determine state of charge. Readings under 20 V are suspect for units with just 2 batteries.**

3. Insert hose stem into battery cell and squeeze bulb.

4. Release pressure until enough acid solution is drawn into the tube allowing the float to float freely. Be sure float does not touch rubber stopper at the top of the tube.

5. The float reading at the water line is the uncorrected charge level of the battery.

6. Read and record the specific gravity of all 16 pilot cells: "record readings below": acceptable range is 1.225 – 1.300 (if out of this range notify tech support)

Note 1: the sheet below is set up for 2 or 8 batteries as some units have 8 batteries.

Note 2: accurate readings cannot be obtained if water has recently been added to cells. Differences of 50 points or more between readings in battery cells may indicate pending battery failure.

7. Based on the above specific gravity readings, do any batteries need replaced? Remember, if the unit came in with already dead batteries, an attempt to charge the batteries must be made before taking the specific gravity readings. YES

8. Return acid to cell from which it was drawn.

9. Be sure all vent plugs are replaced and tight.

10. With Unit shut down measure the voltage reading across each battery at the terminals, record readings on the chart below.

ES 3325 CS 33.08

11. Make a general check of the battery as to proper blocking, clean and tight connections at all points, and any unusual appearance or condition. If any unusual appearance or conditions exist, like corrosion, clean with scotch-brite buffer or wire br

12. Apply approved protective coating to connections after terminals are cleaned and dried

13. Add water as required (Add water to bottom of filler neck).

Battery Cranking Voltage Test

14. Close battery knife switch, and circuit breakers.

15. Open the injector toggle switch, on EUI units to prevent unit from starting.

NOTE: Battery cranking voltage readings do not need to be taken on Air Start Locomotives.

TP Goodine

TP Goodine

TP Goodine

TP Goodine

M Coiley

TP Goodine

M. Coiley

TP Goodine

TP Goodine M Coiley

M Coiley

TP Goodine

TP Goodine

TP Goodine

16. On MUI engines, pull the Governor button and hold back the Lay-shaft while cranking the engine over to prevent unit from starting.

18. Based on the cranking voltages, is any battery suspect of needing replaced? YES **NO**

2 Battery Units	Specific Gravity				Water Added			Battery Replaced-Reason
	Cell 1	Cell 2	Cell 3	Cell 4	Yes	No	Yes	
Battery 1								o
Section A	1255	1275	1275	1220		✓		33.25V
Section B	1260	1260	1255	1240		✓		
Section C	1240	1275	1275	1250		✓		
Section D	1275	1275	1260	1250		✓		

2 Battery Units	Specific Gravity				Water Added			Battery Replaced-Reason
	Cell 1	Cell 2	Cell 3	Cell 4	Yes	No	Yes	
Battery 2								o
Section A	1250	1275	1240	1250		✓		33.08 ✓
Section B	1250	1240	1270	1290		✓		
Section C	1250	1280	1275	1300		✓		
Section D	1225	1225	1180	1280		✓		

8 Battery Units	Specific Gravity				Water Added			Battery Replaced-Reason
	Cell 1	Cell 2	Cell 3	Cell 4	Yes	No	Yes	
Battery 1								
Battery 2								
Battery 3								
Battery 4								
Battery 5								
Battery 6								
Battery 7								
Battery 8								

BATTERY CRANKING VOLTAGE CHART

	Battery 1	Battery 2	Battery 3	Battery 4	Battery 5	Battery 6	Battery 7	Battery 8
Battery Voltage								
Battery Voltage								
Cranking Battery Voltage								
Battery Voltage								
Cranking Battery Voltage								

LOCOMOTIVE

DATE

START READING

END READING

L#1		L#1	
L#2		L#2	
L#3		L#3	
L#4		L#4	
L#5		L#5	
L#6		L#6	
R#1		R#1	
R#2		R#2	
R#3		R#3	
R#4		R#4	
R#5		R#5	
R#6		R#6	

OLD GAUGE
FLANGE HEIGHT MEASUREMENT
2-on-5-1-13/32"

WEAR LIMITS FOR ROAD & SWITCH LOCOMOTIVES - MINIMUM DAILY REQUIREMENTS

FRA 1 1/8"	MMA 1 7/16"	Flange Height
FRA 7/8"	MMA 15/16"	Flange Thickness
FRA 1"	MMA 1 1/16"	Rim Thickness
FRA 5/16"	MMA 1/2"	Tread Wear

NEW GAUGE
FLANGE HEIGHT MEASUREMENT
2-on-22-1-13/32"

WEAR LIMITS - ROAD & SWITCH LOCOMOTIVES - MINIMUM DAILY REQUIREMENTS

FLANGE Height	Flange THICKNESS	Rim THICKNESS	Tread WEAR	Flange HEIGHT	Flange THICKNESS	Rim THICKNESS	Tread WEAR
FRA 1 1/8"	FRA 7/8"	FRA 1"	FRA 5/16"	FRA 1 1/8"	FRA 7/8"	FRA 1"	FRA 5/16"
MMA 1 1/8"	MMA 1 1/32"	MMA 1 1/16"	MMA 1/2"	MMA 1 1/8"	MMA 1"	MMA 1 1/8"	MMA 5/16"

CONVERSION CHART FOR WHEEL DIAMETER

8= 37"	15= 37 7/8"	22= 38 1/2"	29= 39 5/8"	36= 40 1/2"
9= 37 1/8"	16= 38"	23= 38 7/8"	30= 39 1/2"	37= 40 5/8"
10= 37 1/4"	17= 38 1/4"	24= 39"	31= 39 7/8"	38= 41 1/8"
11= 37 3/8"	18= 38 3/4"	25= 39 1/4"	32= 40 1/4"	39= 41 3/8"
12= 37 1/2"	19= 38 3/8"	26= 39 1/2"	33= 40 3/8"	40= 41 5/8"
13= 37 3/4"	20= 38 3/2"	27= 39 3/4"	34= 40 3/4"	41= 41 7/8"
14= 37 7/8"	21= 38 7/8"	28= 39 7/8"	35= 40 7/8"	42= 42 1/8"

NEW GAUGE
FLANGE THICKNESS MEASUREMENT
4-on-8-1-1/2"

LOCOMOTIVE RAIL CLEARANCE

COUPLER HEIGHT	FRONT	REAR	FRONT	REAR	HEIGHT OF HORIZONTAL EYE, HAND HOLD OR UNCOUPLING LEVER IF USED AS HORIZONTAL HANDHOLD	LOCOMOTIVE RAIL CLEARANCE
100"	100"	100"	100"	100"	100"	100"
105"	105"	105"	105"	105"	105"	105"
110"	110"	110"	110"	110"	110"	110"
115"	115"	115"	115"	115"	115"	115"
120"	120"	120"	120"	120"	120"	120"

10" DIAMETER WHEEL WITHNESS GROOVE + 3/8" 10" DIAMETER WHEEL WITHNESS GROOVE + 3/8"

FIELD REPRESENTATIVE

[Signature Line]

FIELD REPRESENTATIVE

[Signature Line]

Description of Work Performed

Locomotive ID MMA 23 Time Started 1030 Time Finished _____

- Horn handle booked for repair - Replaced 7P boards
- Eng Fr. Wiper not working - Replaced - 7P boards
- Eng rear wiper out of Alignment - Adj 7P boards
- Light oil in "V" - HAVE SOAK pads in right now! - Took out Pads 7P boards
- Primary Fuel Filter Housing Loose - Tightened 7P boards
- Eng. Comp Fire Ext outdated next month - Replaced - 7P boards
- Eng side Rear slide window loose in rail - Adj 7P boards
- L-1, L-2, L-3, R-2 wheels N&B flanges trimmed. 7P boards
- L-7 - L-8 Brake shoes overbedding - shaved in 7P boards
- Rear sand box empty - was no sand in tower when doing run in. Filled 7P boards
- cleaned & refilled Toilet with winter chemicals - 7P boards

Description of Work Performed

Locomotive ID

Time Started

Time Finished

Employee Signature _____ Form to fill out completely and Signature must be legible.

Unit: _____

Date: _____

DEFECTS FOUND DURING INSPECTION

DEFECT <u>4 light Bulbs out</u>	INSPECTED BY: <u>PLC</u>
REPAIR <u>Replace w/new</u>	CORRECTED BY: <u>PLC</u>

DEFECT <u>Eng Fr. APPLICATION VALVE LEAKING</u>	INSPECTED BY: <u>TPG</u>
REPAIR <u>REPLACED APP. VALVE</u>	CORRECTED BY: <u>TPG M.C</u>

DEFECT <u>#1 MR SPITTER VALVE DEFECTIVE</u>	INSPECTED BY: <u>TPG - MC</u>
REPAIR <u>REPLACED MR SPITTER VALVE</u>	CORRECTED BY: <u>TPG - MC</u>

DEFECT <u>R-4 Brake Head bad - wont hold Key</u>	INSPECTED BY: <u>TPG - MC</u>
REPAIR <u>Replaced B-Head</u>	CORRECTED BY: <u>TPG / M. Conley</u>

DEFECT _____	INSPECTED BY:
REPAIR _____	CORRECTED BY:

Unit: _____

Date: _____

DEFECTS FOUND DURING INSPECTION

DEFECT _____ _____ _____	INSPECTED BY: _____ _____
REPAIR _____ _____ _____	CORRECTED BY: _____ _____

DEFECT _____ _____ _____	INSPECTED BY: _____ _____
REPAIR _____ _____ _____	CORRECTED BY: _____ _____

DEFECT _____ _____ _____	INSPECTED BY: _____ _____
REPAIR _____ _____ _____	CORRECTED BY: _____ _____

DEFECT _____ _____ _____	INSPECTED BY: _____ _____
REPAIR _____ _____ _____	CORRECTED BY: _____ _____

DEFECT _____ _____ _____	INSPECTED BY: _____ _____
REPAIR _____ _____ _____	CORRECTED BY: _____ _____

WINTERIZATION

WINTERIZATION	Signature
Winterization - All MMA Locomotives. (August - April)	
Inspect front and rear cab door seals replace, as needed (NO TAPE)	<i>D. [Signature]</i>
Inspect left and right side window seals replace as needed.	<i>D. [Signature]</i>
Inspect Electric cabinet door seals replace as needed.	<i>D. [Signature]</i>
Operate Cab Heaters-Check condition of Heater Assembly @ 45o F above Ambient Temperature.	
Operate Window Defrosters-Check condition of Defroster @ 45o F above Ambient Temperature.	
If equipped, test the Auto Dump valve for proper operation.	—
Test Manual Water Dump Valves, Proper Handle, Location, Orifice is Open.	<i>D. [Signature]</i>
Close Winter/ Summer doors if equipped.	<i>D. [Signature]</i>
Check Traction Motor cover gaskets, install as needed.	<i>D. [Signature]</i>
Check condition of Cab Door Hinges (Lubricate all Hinges)	<i>D. [Signature]</i>
Check condition of Cab Door Locks (Lubricate all Locks)	<i>D. [Signature]</i>
Inspect Cab Windows Slider Rail, Adjust Top Rail as needed, Lubricate with Silicone Grease.	<i>D. [Signature]</i>
Renew all Wiper Blades.	<i>D. [Signature]</i>
Criteria for Door seal Replacement: A. Seal shows signs of Deterioration and or Medium to Heavy Cracking. B. Door seal is Torn or Loose from Door. C. With Door in the fully closed position has noticeable crack between door jam and cab carbody.	—
Criteria for Window seal Replacement: A. Seals shows signs of Deterioration and or Medium to Heavy Cracking. B. Seal is Torn or Loose from window seal. C. With windows fully in the closed position there is a gap between window frame and carbody.	—

Service Operations

UNIT _____

DATE _____

THROTTLE 8 OUTBOUND LOAD TESTS

Eng RPM (900)	BMD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GE	_____	Water Temp	_____
Horsepower		_____	Overspeed Setting	_____
Volts (5.3)	B-23	_____	RACK SETTING	_____
Volts (7)	C-30	_____		
Volts (720)	B-39	_____		

THROTTLE #1 STALL TEST

OP Mode	(PWR)	_____	
AMPS	(300)	_____	
MGA	(1220)	_____	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	_____	