



Locomotive Release from Shop Form  
To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 3603 on this date 02-09-11 and take no exception to applicable laws, rules and or MMA standards, policies and standards.



# Service Operations

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

## THROTTLE 8 INBOUND LOAD TESTS

Eng RPM (900)	EMD	_____	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)	_____	NOT APPLICABLE TO B-23 AND C-30
AMPS	(300)	_____	
MGA	(1220)	_____	
Charging Rate	(70v)	_____	

## TL 24T

Throttle 1	(1V)	_____
Throttle 2		_____
Throttle 3		_____
Throttle 4		_____
Throttle 5		_____
Throttle 6		_____
Throttle 7		_____
Throttle 8	(72V)	_____



REVISION:  
 REVISION DATE: 06/22/2010  
 ISSUED BY: T. A. Scalia

**B-23, B-39, C-30, GP-7 UNSCHEDULED**

**UNIT:**

ITEM	<p align="center"><i>In-Bound Or Running Electrical</i></p> <p align="center"><b>ELECTRICAL</b></p>	<b>WORKED BY:</b>
	ONLY INBOUND LOAD BOX A SWITCHER IF IT'S NECESSARY AND REPORTED WITH LOADING ISSUES. OTHERWISE THE LOAD BOX ON A SWITCHER WILL BE DONE ON THE OUTBOUND	
	REVIEW COMPUTER ARCHIVE DATA AND NOTE ON DEFECT SHEETS IF APPLICABLE	
	NOTE SIGNIFICANT FAULTS ON DEFECT SHEETS.	
	DOWNLOAD & TEST EVENT RECORDER SYSTEM,	
	TEST RADIO ANTENNA WITH MFJ-269 ANALYZER	
	CLOSELY INSPECT THE HEAD END DEVICE CONNECTOR. ENSURE IT IS TIGHTLY CONNECTED AND NOT CROSS THREADED	
	PERFORM ALL LOCOMOTIVE SELF TEST FUNCTIONS	
	B. CHECK FOR AC GROUNDS IN COOLING FAN CIRCUIT WITH TEST LIGHT (30 watt bulb) ONLY APPLIES TO GP-7.	
	CHECK OPERATION OF GROUND RELAY	
	(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	
	CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	
	WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS. DOES NOT APPLY TO C-30, B-23 AND B-39.	
	CHECK OPERATION OF:	
	A. HEATING	
	B. WINDSHIELD HEATERS/DEFOGGER (SEPTEMBER - FEBRUARY)	
	CHECK OPERATION OF ALERTNESS DEVICES	
	CHECK OPERATION OF ALL EMERGENCY FUEL SHUTOFF DEVICES	
	A. EMERGENCY FUEL CUTOFFS	
	B. MU ENGINE STOP	



**B-23, B-39, C-30, GP-7 UNSCHEDULED**

**UNIT:**

ITEM	<i>In-Bound Or Running Mechanical</i> <b>MECHANICAL</b>	WORKED BY:
	INSPECT ENGINE OVERHEAD (WITH ENGINE AT IDLE):	
	PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	
	INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS	
	INSPECT COOLING SYSTEM:	
	A: CHECK HOSES AND PIPES FOR LEAKS	
	VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	
	TEST AIR BRAKE EQUIPMENT PER RULE 212	
	PERFORM PENALTY BRAKE TEST	
	CHECK FLUID LEVELS BEFORE LOADING:	
	A: ENGINE OIL	
	B: COOLING WATER	
	C: AIR COMPRESSOR OIL	
	TEST OPERATION OF THE FOLLOWING DEVICES:	
	A. BELL	
	B. SANDERS (FORWARD, REVERSE, EMERGENCY)	
	C. RADIATOR SHUTTERS	
	INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI	
	INSPECT SAFETY POP. 155 PSI	



English

**B-23, B-39, C-30, GP-7 UNSCHEDULED**

**UNIT:**

*Out-Bound Loadtest Electrical/Mechanical*

WORKED

ITEM

**MECHANICAL**

BY:

- INSPECT ENGINE OVERHEAD (WITH ENGINE AT IDLE):
- PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.
- INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS
- INSPECT COOLING SYSTEM:
- A: CHECK HOSES AND PIPES FOR LEAKS
- VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS
- TEST AIR BRAKE EQUIPMENT PER RULE 212
- PERFORM PENALTY BRAKE TEST
- CHECK FLUID LEVELS BEFORE LOADING:
- A: ENGINE OIL
- B: COOLING WATER
- C: AIR COMPRESSOR OIL
- INSPECT SAND TRAP, NOZZLES, HOSES AND BRACKETS
- TEST OPERATION OF THE FOLLOWING DEVICES:
- A. BELL
- B. SANDERS (FORWARD, REVERSE, EMERGENCY)
- C. RADIATOR SHUTTERS

**ELECTRICAL**

- CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)
- IF A TRACTION MOTOR WAS REPALCED, ROLL TEST THE LOCOMOTIVE TO ENSURE THE TM LEADS ARE PROPERLY HOOKED UP
- WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS. DOES NOT APPLY TO C-30, B-23 AND B-39.
- CHECK OPERATION OF:
- A. HEATING
- COMPLETE THE LOAD TEST SHEETS
- INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI
- INSPECT SAFETY POP. 155 PSI



# Service Operations

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

## THROTTLE 8 OUTBOUND LOAD TESTS

Eng RPM (900)	EMD	_____	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)	_____	

## TL 24T

Throttle 1	(1V)	_____
Throttle 2		_____
Throttle 3		_____
Throttle 4		_____
Throttle 5		_____
Throttle 6		_____
Throttle 7		_____
Throttle 8	(72V)	_____

Unit: 3603

Date: 02-09-11

DEFECTS FOUND DURING INSPECTION

DEFECT	1/2" GAP BETWEEN T.M. Blower and Blower support.	INSPECTED BY:	JB
REPAIR	Built 1/2" FRAMEWORK TO close GAP and INSTALLED	CORRECTED BY:	JB/TPG

DEFECT	NEED TO DRILL AN DOWEL FAN DRIVE	INSPECTED BY:	JB
REPAIR	DRILLED and DOWELED FAN DRIVE	CORRECTED BY:	JB/TPG

DEFECT	NEEDS ALL TIN WORK PUT BACK AROUND FAN DRIVE	INSPECTED BY:	JB
REPAIR	INSTALLED ALL TIN WORK AROUND FAN DRIVE	CORRECTED BY:	JB/TPG

DEFECT	Guard on Back side of Drive Short will not fit.	INSPECTED BY:	JB
REPAIR	MADE NEW Drive SHIRT GUARD	CORRECTED BY:	JB/TPG

DEFECT	Top Hatch need to Be INSTALLED	INSPECTED BY:	JB
REPAIR	INSTALLED Top Hatch	CORRECTED BY:	JB/TPG

Unit: 3603

Date: 02-09-11

**DEFECTS FOUND DURING INSPECTION**

DEFECT <u># 3 T.M. gear case Bolt</u> <u>loose</u>	INSPECTED BY: <u>JB</u>
REPAIR <u>Tightened gear case Bolt</u>	CORRECTED BY: <u>JB</u>

DEFECT <u># 2 T.M. gear case Bolt</u> <u>missing</u>	INSPECTED BY: <u>JB</u>
REPAIR <u>Replaced gear case Bolt.</u>	CORRECTED BY: <u>JB</u>

DEFECT <u>unit booked for radiator leak</u>	INSPECTED BY: <u>JB</u>
REPAIR <u>Squeezed unit found no radiator leak.</u>	CORRECTED BY: <u>JB/TPG</u>

DEFECT <u>(5) Brake shoes thin</u>	INSPECTED BY: <u>JB</u>
REPAIR <u>Replaced (5) brake shoes</u>	CORRECTED BY: <u>JB/TPG</u>

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



# Description of Work Performed

Locomotive ID \_\_\_\_\_

Time Started \_\_\_\_\_

Time Finished \_\_\_\_\_

# Description of Work Performed

**Locomotive ID**

**Time Started**

**Time Finished**

Locomotive ID	Time Started	Time Finished

**Employee Signature** \_\_\_\_\_ **Form to fill out completely and Signature must be legible.**

UNIT#	DATE	DESCRIPTION	PART #	QUANTITY	INSTALLED	AWP