

DMVW

DAKOTA MISSOURI VALLEY WESTERN RAILROAD



INDUSTRIAL SERVICES

3501 E Rosser Ave
Bismarck, ND 58501
701-223-9282
www.dmvwrr.com

OPERATIONAL SWITCHING
LOCOMOTIVE SERVICES
CAR REPAIR
CONTRACTING



INDUSTRIAL SWITCHING

Operation

DMVW will provide a turn key operation plan with our own locomotives and employees or a customized plan focusing on switching and rail car movements. This allows the customer to focus on their core business and creates better plant utilization.

Industrial Contract Switching Services

- Locomotive and material handling equipment
 - Leased locomotives
- Trained Personnel
 - DMVW Employees
 - Customer Engineer/Switchman training
- Administration/Supervision
- Proven Safety record and Safety methods
 - Customer personnel Safety training
- Reporting and Analysis
- Insurance

Contact us today for your free—no obligation industrial switching consultation.

OPERATIONS MANAGER:

Chad Dockter
701-595-7128
cdockter@dmvwrr.com

LOCOMOTIVE MAINTENANCE

Strengths and Commitment

With over 120 combined years of Locomotive, Mechanical, and Electrical experience and with over 50 parts suppliers, DMVW has the knowledge and experience to accommodate all your Locomotive service needs.

Operating as a railroad since 1990, DMVW fully understands the severity of having a locomotive unit down or not operating properly. It is our commitment to work closely with our customers to service and maintain their equipment in a timely and professional manner.

Products and Services

- FRA-mandated inspections
 - 92-Day
 - Annual
 - Tri-Annual
- Minor and major engine repair
- Load box tests
- Truck repairs
 - Including wheels and traction motors
- Electrical trouble-shooting and repair
- Preventive maintenance programs
- Air system trouble-shooting and repair
- New, RTO, and Utex parts available
- Proven fuel and oil additives
- Lubricants



MECHANICAL SHOP FORMAN:

Shelby Martin
701-595-7122
smartin@dmvwrr.com

MECHANICAL-PURCHASING:

Dennis Fritts
701-595-7125
dfritts@dmvwrr.com

ELECTRICAL SPECIALIST:

Joe Whitmer
208-921-3691
jwhitmer@dmvwrr.com

CAR REPAIR

Mechanical/Car Repair Customer List

- Dakota Gasification Company
- Blue Flint
- Dakota Coal/AVS
- Leland Olds
- Great River Energy
- CHS South Central Grain
- Fullerton Farmers Elevator
- New Century Ag
- Montana Lime Stone Company
- South West Grain
- Great River Energy Spiritwood
- AGP Aberdeen SD

DMVW's Car Department provides Contract. Rail Car Inspection and Minor Repairs.

Keeping your Railcar Fleet maintained and operational at all times is crucial to any company. Most of our clients have found on-site car repair saves them time and money opposed to shipping cars to a home shop for repairs, keeping their fleet moving product like intended.

With our well equipped service trucks and portable hydraulic jack system for truck components and wheel repairs, from air valves to bottom gates, DMVW offers the equipment and experience to repair most cars on-site.

Our constantly growing parts inventory and our ability to work closely with over twenty car parts vendors, allows us to obtain needed parts quickly and efficiently.



CAR REPAIR:

Dennis Fritts
701-595-7125
dfritts@dmvwrr.com

YARD WALK/TRACK INSPECTION

Initial consult will include a detailed write up of: broken rails, condition of track surface, track gauge, operation of switches, crossings for vehicle and train traffic safety, and any area of concern.

Contact us today for your free - no obligation track inspection and Defect/Maintenance Plan.

CONSTRUCTION

Concept design and track construction from switches to jobs of various lengths and sizes.

REHAB

Replace worn and damaged materials beyond FRA specifications with new or reconditioned materials.

MAINTAINANCE

Maintain switches, crossings, and derails for compliance and safety.

WELDING & RECONDITIONING

We have experienced rail welders capable of any rail weld needs, including Thermal Arc Welding, or the reconditioning of switches, points, and frogs.

DERAILMENTS

Minor derailments to re-railing multiple cars and locomotives in various situations.

CONTRACTING:

Lee Auch
701-471-0865
lauch@dmvwrr.com



CONTRACTING

DMVW's track contracting department can assist with virtually all of your industrial track requirements, including:

- Track design and layout
- Track construction
- Rehabilitation including ties, ballast, and rail relay
- Replace and upgrade switches
- Maintenance programs
- Routine and scheduled Inspection
- Rail welding and grinding Emergency Services
- Derailments and reconditioning

Active Customer List

- AGP Aberdeen SD (2019)
- Basin Electric Power Cooperative (2004)
- Great River Energy (1998)
- Coyote Station (2004)
- Westmoreland Beulah Mining (2004)
- Falkirk Mine (2008)
- CHS (2008)
- Spiritwood Energy Park Association (2010)
- Dakota Spirit Ag Energy (2010)
- State of South Dakota (2007)
- Multiple grain terminals throughout North Dakota (1996) and South Dakota (2014)



DAKOTA • MISSOURI VALLEY • WESTERN RAILROAD

3501 East Rosser Ave
Bismarck, ND 58503

Phone: 701-223-9282

Fax: 701-223-4147

Inspection Form

DATE:

LOCATION:

INSPECTOR:

Track Geometry (surface, line, elevation, and track gauge)

-
-

Track Structure (ballast condition, crossties, rails, rail joints, track fastenings)

-
-
-
-
-

Rail Lubricators:

-

Switches (switch points, switch braces, switch plates, switch rods, and switch stands)

-
-
-
-

Frogs (flangeway depth, frog points, frog guard rails)

-
-

Comments:

-
-
-



SWITCH INSPECTION

DATE: _____

LOCATION: _____

INSPECTOR: _____

Switch # or Location: _____

OPEN

CLOSE

1 Torque Reading

	Before:		After:		Before:		After:	

2 Ballast/Footing _____

3 Switch Tie Condition _____

4 Switch Points _____

5 Rods, Stands, etc. _____

6 Frogs & Guard Rails _____

Comments: _____

Switch # or Location: _____

OPEN

CLOSE

1 Torque Reading

	Before:		After:		Before:		After:	

2 Ballast/Footing _____

3 Switch Tie Condition _____

4 Switch Points _____

5 Rods, Stands, etc. _____

6 Frogs & Guard Rails _____

Comments: _____

Switch # or Location: _____

OPEN

CLOSE

1 Torque Reading

	Before:		After:		Before:		After:	

2 Ballast/Footing _____

3 Switch Tie Condition _____

4 Switch Points _____

5 Rods, Stands, etc. _____

6 Frogs & Guard Rails _____

Comments: _____

COMPANY CONTACTS

GENERAL MANAGER

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Fax: 701-223-4749



DAKOTA MISSOURI VALLEY WESTERN RAILROAD

SUMMARY OF LOCOMOTIVE INSPECTION ITEMS

92-DAY

SEMI-ANNUAL (184-DAY)

ANNUAL (368-DAY)

TRI-ANNUAL (1104-DAY)

92-DAY ELECTRICAL

Inbound 92-Day Base Item:

- Check heater operation in cab
- Check wiper motor operation
- Check horn and bell
- Check sanders, forward and reverse
- Check air compressor governor operation
- Check automatic drains for operation
- Independent leakage test
- Automatic leakage test
- Maintaining Test for Automatic
- Automatic application bail-off test
- Emergency application test – PCS Test
- Verify BC pressure for alerter nullify
- Alerter test
- Test DB Interlock if Dynamic Equipped
- MR Safety Valve Test
- Cooling fan test
- Verify forward/reverse loading
- Top deck running inspection
- Check for fuel, water, oil, and air leaks
- Flush compressor heads of sediment
- Check throttle speeds
- Check all water, oil, and sand levels
- Test engine protector and low oil button
- Obtain lube oil sample
- Idle oil pressure
- Idle engine water temperature
- Check exhaust, fuel, water, and oil systems for leaks
- Megger high-voltage
- Test for low-voltage grounds
- Test for AC grounds
- Check voltage regulator setting
- Check front, and rear headlight and ditchlight operation
- Check cab, carbody, and control stand lights
- PTC Equipped Locos, complete 92-Day PTC Inspection

Semi-Annual (184-Day) Inbound

(92-Day plus the following):

- PTC Equipped Locos, Full PTC inspection

Annual (368-Day) Inbound

(92-Day, Semi-Annual plus the following):

- 8th notch load test
 - MGA, MGV
 - Traction HP
 - Engine RPM
 - Rack
 - Oil pressure
 - Water temperature
 - Manometer reading
 - Air Box pressure
 - Water pump inlet temperature
 - Oil Cooler Discharge temperature
- Verify Loadmeter calibration
- Event recorder verification
- Check video camera operation, set time and date if equipped

92-Day Base Inspection Items

- Complete wheel report
- FRA 229 Safety Inspection
- Change-out primary filters
- Change-out secondary filters
- Clean fuel sight glasses
- Prime fuel system and check for leaks
- Check water for treatment
- Change out main lube filters
- Change out air compressor oil filter (if applicable)
- Change out turbo lube supply filter
- Change out turbo lube soakback filter
- Change out engine air filters
- Renew carbody filters on applicable units
- Change out air compressor inlet filter
- Test air brake gauges
- Lubricate handbrake and test operation
- Check and fill journal boxes
- Check and fill support bearings
- Check wick bolt tightness
- Check and fill gear cases
- Check and adjust brakes as required
- Inspect fire extinguishers (date and securement)
- Check wiper blades
- Check cab supplies (Fuses, fusees, and red flags)
- Lubricate shutter linkage
- Drain retention tank
- Grease couplers

Semi-Annual (184-Day) Inspection

(92-Day plus the following):

- Check engine rack reading (dead)
- Inspect with hydro of cooling system
- Check for dropped valves
- Manually rotate engine checking rollers and cam lobes
- After inspection perform fuel leak check
- Obtain lead readings
- Check top ring land readings
- Check ring tension and wear

- Inspect piston condition
- Inspect liner condition
- Measure crankshaft lateral
- Check connecting rod lateral
- Hammer test all main bearing nuts
- Hammer test all rod nuts and bolts
- Hammer test all piston cooling pipes
- Check connecting rods for overheat
- Check for internal water leaks

Annual (368-Day) Inspection

(92-Day, Semi-Annual plus the following):

- Remove and clean lube oil strainers
- Install lube oil strainers with new seals
- Change out air system filters
- Change out coalescer filter on units equipped with air dryer
- Drain and fill journal boxes with new oil
- Remove fire extinguishers, re-certify, and reinstall
- Tighten all top deck frame bolts and exhaust base bolts
- Remove, inspect, and clean eductor tube (Turbocharged locos)
- Inspect and clean turbo screen

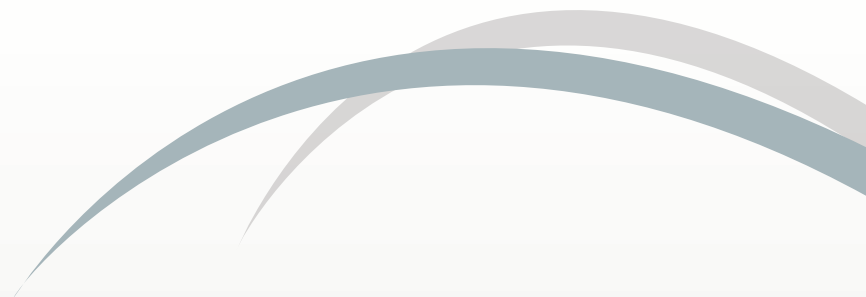
Tri-Annual (1104-Day) Inspection


(92-Day, Semi-Annual, Annual plus the following):

- Change out electrical cabinet air filters
- Change out all air brake valves using list applicable for locomotive
- Grease brake cylinders
- Drain and fill support bearings with new oil
- Remove and inspect support bearing wicks
- Install wicks with new bolts and locks
- Lube Air Compressor Unloaders
- Check engine timing pointer
- Inspect cylinder head valves, bridges, and camshafts
- Main generator bearing lube
- Verify engine governor speeds on load test

92-Day Base Electrical Inspection

- D22/D32 Generator:
 - Inspect generator brushes and holders
 - Inspect D14 brushes and slip rings
 - Check for flashover damage
- AR10/AR11 Alternator:
 - Inspect AR and D14 brushes and slip rings
 - Inspect rectifier and transition fuses
- Auxiliary generator – inspect brushes and holders (N/A with AC aux)
- Turbo lube pump motor – inspect brushes and coupling (turbo units)
- Fuel pump motor – inspect brushes and coupling (N/A with AC motor)
- Check AC cabinet – terminal board connections
- DB grid blowers – inspect brushes (DB equipped only)
- Load regulator – inspect coupling, and brushes (if not a sealed unit)
- Electrical cabinets – check for loose wiring or overheated connections
- Control stand – inspect wiring and switches
- Cab heaters – inspect motor brushes and wiring
- Traction motors:
 - Check brushes
 - Check for flashover damage
 - Check TM boots for overheat
 - Check ground wire
- MU receptacles – inspect and clean as required
- Batteries:
 - Check and fill with water
 - Check connections
 - Inspect battery box condition
 - Clean/wash as required





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