GI-611(a)-F Inspection form for Hellfire SCD Systems

Subdivision		**Mileage**	
Location Name		**SCD/Switch ID**	
Inspected by		**Date of Inspection**	

Subject	Action	Check
General	New Installation	☐
	Existing Installation	☐
	Planned Repairs	☐
	Spring Shutdown	☐
	Remove Track Ducting	☐
	Winter Startup	☐
Visual	Area around SCD, fuel supply or tank is free of combustible material & liquids.	☐
Fuel Supply Line	Verify the fuel supply pipeline leak tests have been completed before starting the SCD inspection. Pipeline tests are performed on initial installation by a qualified gas company. If gaseous odor is detected refer to GI 602 Emergency Procedures for Gas Leaks at Snow Clearing Device (SCD) Facilities	☐ ☐ ☐
Clearance	Horizontal and vertical clearance of Hellfire housing and ducting does not impose on Metrolinx's track clearance envelope. Refer to GI-601 Dynamic Clearance Envelope.	☐
Air Intake Nozzles	Hood, Intake and plenum are unobstructed and in good condition.	☐
Point Nozzles	Point nozzles installed.	☐
	Directed at, and tip within 2" to 6" of points, and clear of rail head by 2.5"	☐
	Rodent screens installed between duct and silicone gasket under adaptor collars	☐
	Electrical isolation shoulder washers installed.	☐
Track Duct	Track duct installed	☐
	Rodent screens installed between duct and silicone gasket under elbows.	☐
	Access joint gap of 3".	☐
	Appropriate vents open and directing air at switch plates and rods. Keep all openings closed between the ducts, except where the switch rods are located. Open vent openings no more than ¼".	☐
	Ductwork below top of rail and not interfering with switch operation.	☐
	Track duct deflectors installed, 18" wide at points protecting point nozzles and track duct and 8" at heel protecting track duct.	☐
	Ducting condition is acceptable and clear of any obstructions.	☐
Tie Duct	All clips and insulators installed. There is no evidence of cracks or obstructions.	☐

GO TRANSIT SIGNALS & COMMUNICATIONS
GENERAL INSTRUCTIONS

Subject	Action	Check
Flex Duct	Flex duct is secured properly. Duct and ballast retainer is in good condition.	☐
Sensor Duct	Sensor duct is secured properly and in good condition. Precipitation detector properly mounted and clear of debris.	☐
Gas Manifold	Flame signal strength is at appropriate rating and stable.	☐
	Ignition wires clean and no sign of corrosion.	☐
	Ensure manifold pressure is at maximum nameplate setting.	☐
Thermostats	Rail and sensor duct thermostats are properly enclosed and/ or fastened and have full contact with the component surface.	☐
Electrical Power	Voltage between 85% and 115% of nominal voltage with all connected loads operating. Record measured Voltage _____	☐ ☐
	Ground installed.	☐
Fuel System	LPG Fuel tank filled, or NG service on.	☐
	Supply pressure is at rated supply pressure with all connected loads operating.	☐
Heater	Unit is level (horizontal and vertical)	☐
	Heater functions properly in "Manual".	☐
	"Run" indication function. With the heater running, the contact between terminals A3 and A4 will close. Check for continuity.	☐
	"Alarm indication function. Put the heater into alarm by turning the gas supply off. The heater retries three times. Then the FSR will indicate alarm, and the alarm LED on the controller will light. The contact between terminals A5 and A6 will close. Check for continuity.	☐
	Heater functions in "Remote" control. Toggle mode selector switch to "REMOTE/AUTO". If connected to dispatch, have dispatch start heater.	☐
	With heater running for at least 15 minutes, temperature at closest point nozzle is 93°C - 121°C (200°F - 250°F) above ambient	☐
	Air switch calibration completed.	☐
	Aggressive retry tested.	☐

GO TRANSIT SIGNALS & COMMUNICATIONS
GENERAL INSTRUCTIONS

Subject	Action	Check
EMS	Ensure connection with POWER LED lit.	☐
	Precipitation detector installed on the transition duct, as low to the ground and as close to the switch as possible, and in the heated zone.	☐
	Drop snow (or water) on precipitation detector sensing grid. Snow melts and "SENSOR WET" LED lights on EMS module.	☐
	Ambient temperature sensor installed.	☐
	Ambient temperature sensor tested to ensure that the SCD operates at a temperature below 38°F and turns off at a temperature above 45°F.	☐
	Raise "SNOW-RAIN" set point, if required, above the ambient temperature. The "AMBIENT" LED lights.	☐
	Rail thermostat, if supplied, installed on rail flange.	☐
	Return set points to desired settings.	☐
Flame Safety Relay Burner Control	*For Hellfire 900 Only:* Check and record the last (6) Honeywell display fault history error codes.. H1 Code Hour Cycle H2 Code Hour Cycle H3 Code Hour Cycle H4 Code Hour Cycle H5 Code Hour Cycle H6 Code Hour Cycle	☐
RTC	Request RTC to turn on SCD(s) at control location.	☐
	Confirm SCD(s) operate with RTC control.	☐
	Contact RTC to ensure that the SCD(s) displays as running.	☐
If LP-G Tank	For Winter Season Operation - Check Protective Service Valve Cover is unlocked and valve is open.	☐
	For Non-Winter season inspection or repairs – Check Protective Service Valve Cover is locked and valve is closed.	☐

Legend

(✓) - Check complete, equipment in satisfactory condition.

(✕) - Check complete, equipment requires repair or replacement. Indicate in the Comments/Observations table below, the issue and corrective action.

Comments /Observations: