 SPEC SHEET FOR NON-PCBS OILS

A ROTARY KILN "Norlite" EXPANDED SHALE AGGREGATE

NORLITE CORPORATION
LOW GRADE FUEL SUPPLY SPECIFICATION

Norlite use only
Sample No. _____
LGF Code _____
Reviewed by _____
Approved by _____

I. GENERATOR/BLENDER INFORMATION

Name _____
Facility Address _____
EPA ID No. _____
Technical Contact _____
Telephone No. _____

Billing Address _____

II. WASTE DESCRIPTION

Estimated Volume _____

For Generator:
Generator's Common Name for Waste _____
Process Generating Waste _____

For Blender: (Use a separate sheet, if necessary.)

Waste Stream	Industry	SIC No.	% or Gallons in Blended Fuel

III. Indicate Volatile Organic Constituents in excess of 10%.

Constituent	Max. Conc.	Min. Conc.	Constituent	Max. Conc.	Min. Conc.

IV. WASTE CHARACTERISTICS (At 70° F.)

Color _____
pH _____
Sp. Gr. _____
Flash Pt. _____

% Water _____
Phases 1 _____
2 _____
>2 _____

Physical State
Liquid Semi-Solid Solid

Viscosity
Low Medium High

V. SHIPPING INFORMATION

DOT Shipping Name: _____
UN/NA Number: _____
Hazard Class: _____
EPA Waste Code: _____

VI. WASTE ANALYSIS

PCB _____ ppm
Corrosivity _____ mm/year

Heat of Combustion _____ Btu/gal.
Sulfur _____ %
Chlorine _____ %
Ash _____ %
Solids _____ %

Arsenic _____ ppm
Barium _____ ppm
Beryllium _____ ppm
Cadmium _____ ppm
Chromium _____ ppm
Copper _____ ppm

Lead _____ ppm
Mercury _____ ppm
Nickel _____ ppm
Selenium _____ ppm
Zinc _____ ppm

VII. OTHER COMPONENTS: (ppm)

PBB _____
Cyanide _____
Sulfide _____
Pesticide _____
Herbicide _____
Dioxin _____

OTHER CHARACTERISTICS (Yes or No)

Reactive _____
Radioactive _____
Pyrophoric _____
Explosive _____
Infectious _____
Biological _____

VIII. List any acute hazardous wastes as defined in 40 CFR 261.33(e) or 6NYCRR 371.4(d)(5):

IX. List any hazardous constituents as defined by 40 CFR 261 Appendix VIII.

X. Describe any special handling requirements associated with this waste stream:

250050

XI. I attest and certify that all information provided is complete and accurate. This low grade fuel is properly described with no willful omissions and that all known or suspected hazards have been disclosed. Any changes or additional information obtained about this waste stream will be promptly and correctly conveyed to Norlite.

Generator Agent _____ Date _____

NORLITE COPIES - White and Canary CUSTOMER COPY - Pink

NORLITE CORPORATION

WAP - 1
WASTE ANALYSIS PLAN

STREAM	PARAMETER	ANALYTICAL METHOD	TECHNIQUE	DETECTION LIMIT	RATIONALE FOR PARAMETER	ACCEPTANCE LIMITS	PERMIT LIMIT
Each load	Specific Gravity	Norlite SOP-2	Mass/Vol. Measure	+ /-.001	Waste Verification Used In Calculation	1.20-.70	
Each load	Heat of Combustion	ASTM D240	Oxygen Bomb	5,000 BTU/gal.	Assess Burning Efficiency Requirement	80,000 BTU/gal.	75,000 BTU/gal.
Each load	Total Organic Halogen Content	ASTM D808 (D2361)	Modified Titration (Cl Probe)	+ /- .005	Chlorine Content Requirement	5%	3.0%
Each load	Compatibility	Norlite SOP-3	Thermal Mixing	5 deg. C Temp. Rise	Assure Compatible Samples	10 deg.C Temp. Rise	
Each load	Solids Content	ASTM D96	Evaporation	.005%	Assures Pumpability	10.0%	
Each Load or Composite up to 5 Loads	PCB	EPA Method 6001 4-81-045	GC	5ppm	Verify no Presence of PCB	25ppm	50 ppm
Each tank	Sulfur Ash	ASTM 2622 ASTM 482	X-ray Thermal	.5% .5%	Verify Permit Limits	3% 8%	2.0% 8.0%
Each tank	Arsenic Copper Mercury Selenium	SW-846 EPA 7040 EPA 7210 EPA 7470 EPA 7740	AA AA AA AA	.1 ppm 20 ppm .2 ppm .1 ppm	Verify Metals Below Permit Levels	5.0 ppm 400 ppm 10 ppm 1.0 ppm	1.7 ppm 200 ppm 4.5 ppm 0.36 ppm
Composite of 8 tank Loads	Barium Beryllium Cadmium Chromium Lead Nickel	SW-846 EPA 7080 EPA 7091 EPA 7130 EPA 7190 EPA 7420 EPA 7520	AA AA AA AA AA AA	40 ppm 1.5 ppm 1 ppm 6 ppm 5 ppm 40 ppm	Verify Metals Below Permit Levels	1000 ppm 30 ppm 150 ppm 1000 ppm 1000 ppm 1000 ppm	440 ppm 15 ppm 84 ppm 490 ppm 680 ppm 440 ppm
Annual Gen	Corrosivity	SW-846 Method 1110	Thermal Contact	.025mm/yr	Assure no tank corrosion	6.35mm/yr.	
Annual Gen	Volatile Aromatic Organics	SW-846 EPA 8020	GC	100ppm	Verify Constituents		
Annual Gen	Volatile Chlorinated Organics	SW-846 EPA 8010	GC	100ppm	Verify Constituents		
Annual Gen	Volatile Organics	SW-846 EPA 8015	GC	100ppm	Verify Constituents		

INCINERATION DISPOSAL BID FORM

PROJECT #: _____ CLIENT: _____
TURNAROUND TIME: _____ FACILITY ADDRESS: _____
REQUISITIONER: _____

____ Color (stan. ref. colors)
Wht____ Blk____ Brn____ Ylw____ Grn____ Blu____ Prp____ Red____ Orn____
____ Odor
(none____ mild____ strong____) and (sweet____ acidic____ solvent____ foul____)
____ Number of phases: _____
____ Physical state of phases: Liquid ____; Solid _____
____ Percentage by volume of phases: _____%
✓ Flash Point (Liquid-SW-846 Method 1010) _____ (Range 20-95°C)
(Solid-SW-846 Method 1020) _____ (Range 20-95°C)

		LOD	PRICE
✓	Viscosity - D445 or D2983 ASTM	cpu	$
✓	Density - D1298 ASTM	mg/CC	$
✓	BTU Content - D240 ASTM	200 BTU units	$
✓	Ash Content - D482 ASTM	0.01% by weight	$
✓	Chlorine Content	0.1%	$
✓	Bromine Content	0.1%	$
✓	Iodine Content	0.1%	$
✓	Sulfur Content	0.1%	$
	Total metals - SW-846 7000 (AA) or 6010 (ICAP)		
	Antimony	1.0 mg/Kg	$
✓	Arsenic	1.0 mg/Kg	$
✓	Barium	1.0 mg/Kg	$
✓	Beryllium	1.0 mg/Kg	$
✓	Cadmium	1.0 mg/Kg	$
✓	Total Chromium	1.0 mg/Kg	$
✓	Copper	1.0 mg/Kg	$
	Iron	1.0 mg/Kg	$
✓	Lead	1.0 mg/Kg	$
	Manganese	1.0 mg/Kg	$
✓	Mercury	0.2 mg/Kg	$
✓	Nickel	1.0 mg/Kg	$
✓	Selenium	1.0 mg/Kg	$
	Silver	1.0 mg/Kg	$
	Thallium	1.0 mg/Kg	$
	Zinc	1.0 mg/Kg	$
✓	GC/MS volatile (SW-846 8240) and semi-volatile (SW-846 8270) screen for primary organic constituents, LOD = .01% plus the first 40 compounds greater than 25% of internal standard	100 mg/Kg	$
✓	PCBs and Pesticides - SW-846 8080	1.0/10.0 mg/Kg	$
	If this is an organic stream for incineration:		
	Moisture Content (Karl Fisher or D4007 ASTM)	0.1%	$
	Sediment Content - D4007 ASTM	0.1%	$
	If this is an aqueous stream for incineration:		
	Total Solids - EPA 160.3	0.01%	$
	Total Suspended Solids - EPA 160.2	0.01%	$
	Total Dissolvd Solids - EPA 160.1	0.01%	$
	If this is a sludge/solid for incineration:		
	% Free liquids by the Paint Filter test - SW-846-9095	1.0%	$
	Total Solids - Stnd. Method 209F	1.0%	$