

Company:

Optical Scientific Inc. OFS Application Profile Form

Plant City/State:

Contact Name		Alter	n. Contact:				
Contact Email		: Alternate Tel:					
Contact Phone		::	Date:				
	ossibl	ng information is required to evaluate your sp le, and if needed, feel free to attach additiona	ecific application. Please be as specific and I text and / or simple drawings such as layout				
Item	#	Parameter Description	Application Data				
Site & Process ID	1.	Number of installations planned at this plant:					
	2.	Identification of this specific process location (name and tag number / code, if applicable):	Process Name/ID: Tag #:				
Application Basics	3.	Process / application / fuel (provide as much info as possible):	☐ FCC ☐ Flare ☐ Refinery ☐ Power Plant ☐ Primary Air ☐ Sec. Air ☐ Recovery Boiler ☐ Thermal Oxidizer ☐ Sulfur Recovery ☐ Coal ☐ Oil ☐ Wet Scrubber ☐ Bag House ☐ Other/Rmks:				
	4.	Purpose of measurement:	Compliance Efficiency Loss Control Other:				
	5.	OFS Control Unit packaging:	☐ Rack Mount ☐ NEMA4 ☐ NEMA4X (SS)				
OFS Basics	6.	OFS model type (If known, else leave blank):	☐ Standard ☐ F – Flare (Extended Range Velocity — L – Low Flow Optimized ☐ H – Hi Flow Optimized ☐ V – Velocity + Opacity ☐ W – Hi Power / A ☐ P – Velocity + Particulate Mass				
Stack Details (Skip if N/A)	7.	Stack dimensions:	Inlet Diameter: feet (base) Outlet Diameter: feet (top)				
	8.	Construction of stack:	Steel Cement Brick Refrac.Lined Other				
Note: One of stack, pipe or	9.	Is there annular space? Distance btwn. walls?:	☐ No ☐ Yes – Wall Separation: ft.				
duct detail sections must be completed	10.	Will OFS be installed in the annular area?	□ No □ Yes				
	11.	OFS to be installed on existing angled ports?	□ No □ Yes				
	12.	Cross-stack path length between user flanges:	feet (flange to flange)				
Pipe Details (Skip if N/A)	13.	Pipe diameter:	units: feet inches cm.				
	14.	Pipe schedule or wall thickness:					
	15.	Cross-pipe path length between user flanges:	units: feet inches cm.				
Duct Details (Skip if N/A)	16.	Duct dimensions:	x units: feet inches cm.				
	17.	Duct wall design / thickness / rigidity:					
	18.	Cross-duct path length (between user flanges):	units: feet inches cm.				
Installation Environment	19.	Ambient temp. where OFS heads are to be installed, meas'd 8" away from stack/duct wall:	Min: °F				
	20.	Installation location (OFS heads):	Stack Pipe Duct Indoors Outdoors				
	21.	Ambient air quality / cleanliness around heads:	Clean Dirty Corrosive Other				
	22.	Cabling distance between heads & control unit:	ft. (300 feet max.)				

Optical Scientific Inc. -- OFS Application Profile Form Pg: 2

Measurement Path	23.	Measurement path distan (bends, inlets, fans, obstr		Upstream ft.			Downstreamft.			
	24.	Instrument port config. (1 4" pipe with 150 lb. flat-		New Existing 90° 45° Pipe/flange size:] 45°		
	25.	Type of obstructions pres	Bend Inlet Fan Obstruction Other:							
	26.	Expected vibration to be	☐ None ☐ Low ☐ Moderate ☐ High							
	27.	Is dry / oil-free plant air a	available (if needed)?	Yes Distant Not Available						
	28.	Sketch /drawing of propo and pipe / stack / duct lay		Attached N/A (Describe below in detail)						
Flow Media / Exhaust Gas	29.	Expected flow velocities	during operation:	Low: m/s H		Hi:	m/s	Тур:	m/s	
	30.	Pressure at measurement	point in inches H2O:	Min:		Max:	x: Typ:			
	31.	Typical flow temperature):	Low:	_ °F	Hi:	°F	Тур:	°F	
	32.	Moisture level (99% or le	ess):	Max: % Typ: %		%				
	33.	Opacity (99% or less):		Max: % Typ: %						
	34.	Are there condensed liqu		☐ None ☐ Intermittent ☐ Always						
	35.	List significant corrosive quantities (HF, H2S etc):								
Communications	36.	Inputs / outputs needed:	Calibration initiate RS-232 serial data 4-20ma current loop(s) Relay outputs							
	37.	Serial data output options	Standard RS232 Limited Distance Modem Fiber Optic Modem Other (List Below)							
Options	38.	Area classification for pu	☐ None ☐ Class I Div I ☐ Class I Div II							
	39.	Area classification for pu	☐ None ☐ Class I Div I ☐ Class I Div II							
	40.	Z-Purge Controller(s) w/	☐ No ☐ Yes, heads only ☐ Yes, heads & box							
	41.	Stainless steel marking tags (3) needed?						tomer		
	42.	Gate valves (for high temp. / pressure) needed?								
	43.	Sight glasses (for high temp. / pressure) needed?								
Additional Remarks / Information	44.	Include any additional information below that you feel may be relevant:								
	a									
	b									
	c									
	d									
Contact info for person completing form:			Name: Phone:							

Thank-you for taking time to provide complete & accurate information. This will help insure a smooth installation & setup of your flow measurement application. OSi's desire is to make satisfied customers, not just sensor sales.

When completed, please return to:

PML Process Technology

e-mail: support@pmlprocess.com

Fax: 905-282-9903 Attn: Paul Lawrence