



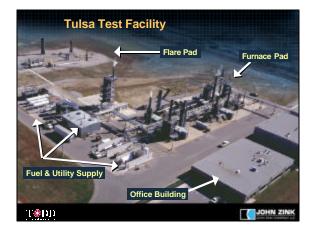


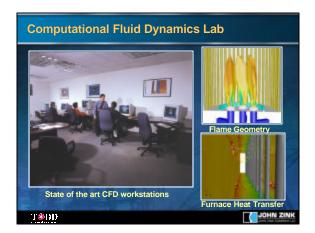
	John Zinl	k Company	
TODD [®] Combustion	John Zink [®]	Gordon-Piatt ™	Support & Resources
Industrial & Utility Boiler Burners	Process Burners	Commercial & Industrial Boiler Burners	Global Operations
Duct Burners	Flares		Origination
	Vapor Control		R&D Test Center
	Thermal Oxidizers		Manufacturing
	Refractory		Parts & Service
	Rental Equipment		Customer Education





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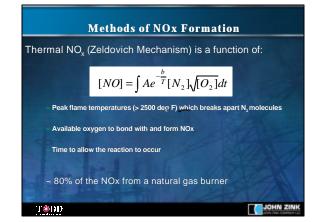


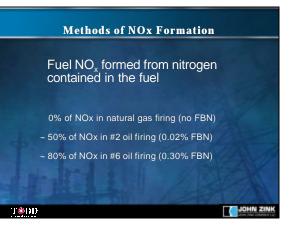




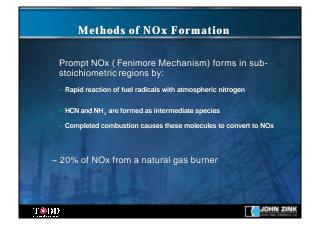
JOHN ZINK

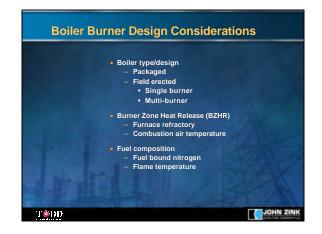
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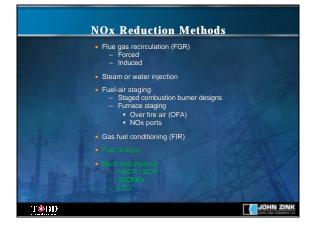


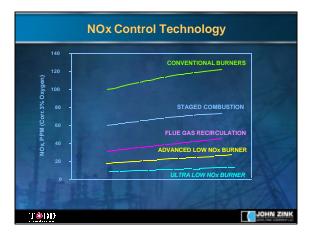


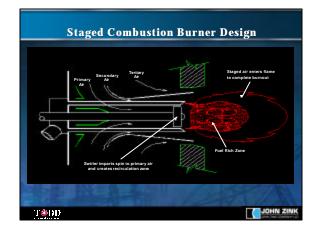
John Zink #33162

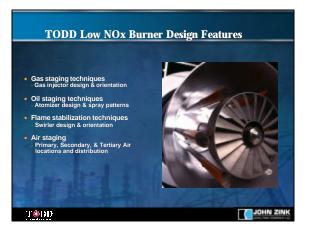


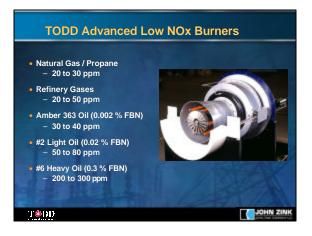


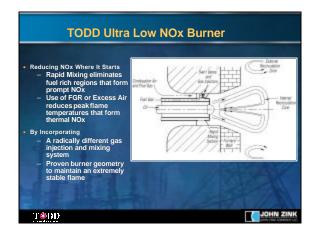








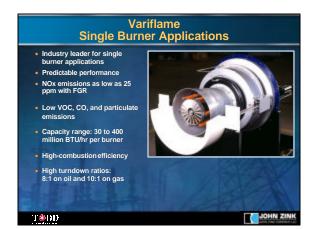


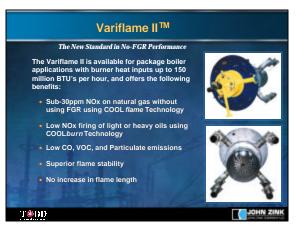


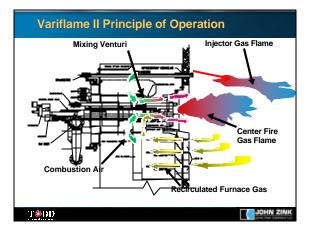


TODD Combustion Solutions

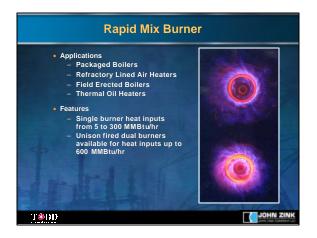
Variflame[™] Variflame II[™] Dynaswirl-LN[®] RMB[™] COOL Technologies[™] LDRW Duct Burners

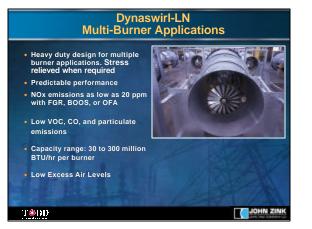




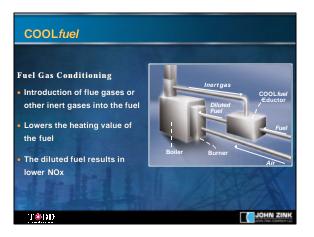


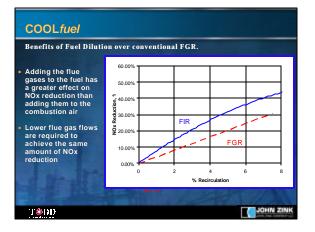












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Rapid Mix Burner Retr	ont Case Study	C
100,000 lb/hr D-type package boiler		16
Natural gas fired		Boil
		Boil
Ambient combustion air		Stea
• 23 - 28% FGR		Bun
 NOx less than 8.5 ppm across entire load range 		# Bi
CO less than 1 ppm across entire load range		Hea
• Excess O2 of 3.2 to 4.0%	Furnace view of a Rapid Mix Burner	Fue
 Boiler capacity increased to 110,000 lb/hr 	and the second	NO
10/11	1 Bartin	cod
'J' 🎱 (803)	JOHN ZINK	



