ASH TREATMENT SYSTEM



FEATURES

- Reduced chemical make-up costs
- Higher steam generation

BENEFITS

- Extended Recovery Boiler operating cycle.
- Reduced soot blowing requirements.
- Reduced boiler water make-up
- Reduced maintenance required for water washing

As mills decrease their effluents and emissions, they increase the contaminant chemicals in their chemical recovery systems. Not all these chemicals are required for the process and, in fact, some of these chemical components can cause problems in the chemical recovery cycle. Elements such as potassium and chloride can cause corrosion and increased saltcake deposition in the chemical recovery boiler. The challenge is to reduce these chemicals to manageable levels while maximizing recovery of valuable saltcake.

Lundberg has a proven Ash Treatment System for removing chloride and potassium from the chemical recovery loop. The system enhances the efficiency of the chemical recovery process while consuming a minimum amount of energy. The systems are selected and designed to meet each kraft mill's unique operating requirements and chemical characteristics.

CONTACT

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LUNDBERG'S AREAS OF EXPERTISE

BY-PRODUCT RECOVERY						
	Tall Oil Soap	Acidulation		Storage		
	Turpentine	Condensing		Storage		
CHEMICAL HANDLING AND STORAGE						
	Sulfur					
	Caustic					
	Acids		_			
	Sulfur Dioxide	Storage		Vaporization		
	AL GENERATION					
	Sulfur Dioxide					
	NSSC Pulping Liquor					
Sulfite/Bisulfite Pulping Liquor						
EVAPORATORS FOR PULPING LIQUOR						
	Multiple-Effect			Vapor Recompression		
	Strong Liquor Concentrato	rs		Crystallizer		
	Pre-Evaporation			REX Technology		
_	Falling Film					
G FOAM C	-	-	_			
	Washer Filtrate	Weak Liquor Storage		Soap Skimming		
	Foambreaker for Light Foa					
Soap Concentrator for Heavy Foam and Soap						
HEAT R			_			
	Blow Heat	Condensers		Systems		
	Pre-Evaporation					
	Digester Heaters and Circu					
	 Direct Contact Gas Coolers TMP 		Г			
		Hot Water		Steam Generation		
	 Heavy Liquor Heaters Waste Heat Boilers 					
Pressure/Vacuum Relief Valves (PVRV)						
	Flame Arresters	aives (FVRV)				
	Jacketed Valves					
	Lundberg Soap Separator/	Soan Skimming Rake				
	Heat Exchangers	Heavy Liquor Heaters				
	SO ₂ Gas Fans					
	Black Liquor Oxidation	Weak		Strong		
	Condensate Stripping	Steam	_	Air		
				MeOH / BOD		
	Noncondensible Gas	Collection		Incineration	Scrubbers	
		Strong		Dilute	sog	
	Direct Fired Oxidizer (DFO)				
	Plywood Industry	Heat Exchangers		Steam Tunnel Condensate E	Evaporator	
	Regenerative Thermal Oxid	dizer (RTO)		Regenerative Catalytic Oxidi	zer (RCO)	
	U Wet Electrostatic Precipita	tor (ESP)				
SPECIA						
	White Liquor Oxidation	🗖 Air		Molecular Oxygen		
	□ Sulfur Addition – Kraft Liqu	ior				
	Recausticizing – White Liq					
_	Ash Treatment Systems –	Saltcake				
TURNKE						
	Engineering					
	Complete EPC					