



FLSmidth Filtration for Tailings Management

Todd Wisdom

+1-801-230-8409



One Source

Wet Tailings Solutions



Lisheen mine tailings pond (Vedanta) in Ireland



The L-L embankment of the Valley impoundment
The Highland Valley Copper Mine is located just outside the town of Kamloops in British Columbia, Canada. The mine produces copper (435,000 tones in 2003) and molybdenum (6405 tones in 2003) concentrates. The tailings pumped to the Valley Impoundment in 2003 were 48.5 million tons.



River and sea disposal Submarine Tailings Disposal (STD) is perhaps the most common offshore disposal technique and involves the deep water discharge of tailings to the sea



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Facts about Tailings and the handling processes

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Facts about Tailings and the handling processes

- *Depending on the type of mineral the tailings can represent anywhere from 30% to 99% of the solids mined*
- *Most minerals tailings currently are handled with wet tailings process and stored in tailings impoundments*
- *These need careful construction, maintenance and monitoring, and also suffer from high evaporation/loss rates*
- *Several drivers towards dry tailings, including:*
 - *lack and cost of water*
 - *Suitable tailing pond lands,*
 - *reclamation responsibilities,*
 - *environmental legislation and,*
 - *wet tailings storage risks*

Dry Stacking Drivers

Industry acceptance	Recycling more water	Tailings land cost	Environmental Legislation	Risk mitigation
		Tailings land availability	Environmental impact	Long term liabilities
Dry tailings experiences	Cost of water	Mining permits	Political pressure	Tailings accidents
		Available dry technology	Lack of water	Mine locations Desert Very Cold
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #ADD8E6; padding: 5px;">Lower Ore Grades</div> <div style="background-color: #ADD8E6; padding: 5px;">More material Mined</div> <div style="background-color: #ADD8E6; padding: 5px;">More Material Processes</div> <div style="background-color: #ADD8E6; padding: 5px;">More Tailings</div> </div>				
<div style="background-color: #ADD8E6; padding: 10px; margin: 0 auto; width: 80%;">High demand -High metal prices</div>				

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Tailings Solutions Options



Dry stacking-La Coipa Mine (Anglo American, Chile)



Surface paste disposal at Myra Falls Mine, Vancouver Island, Canada



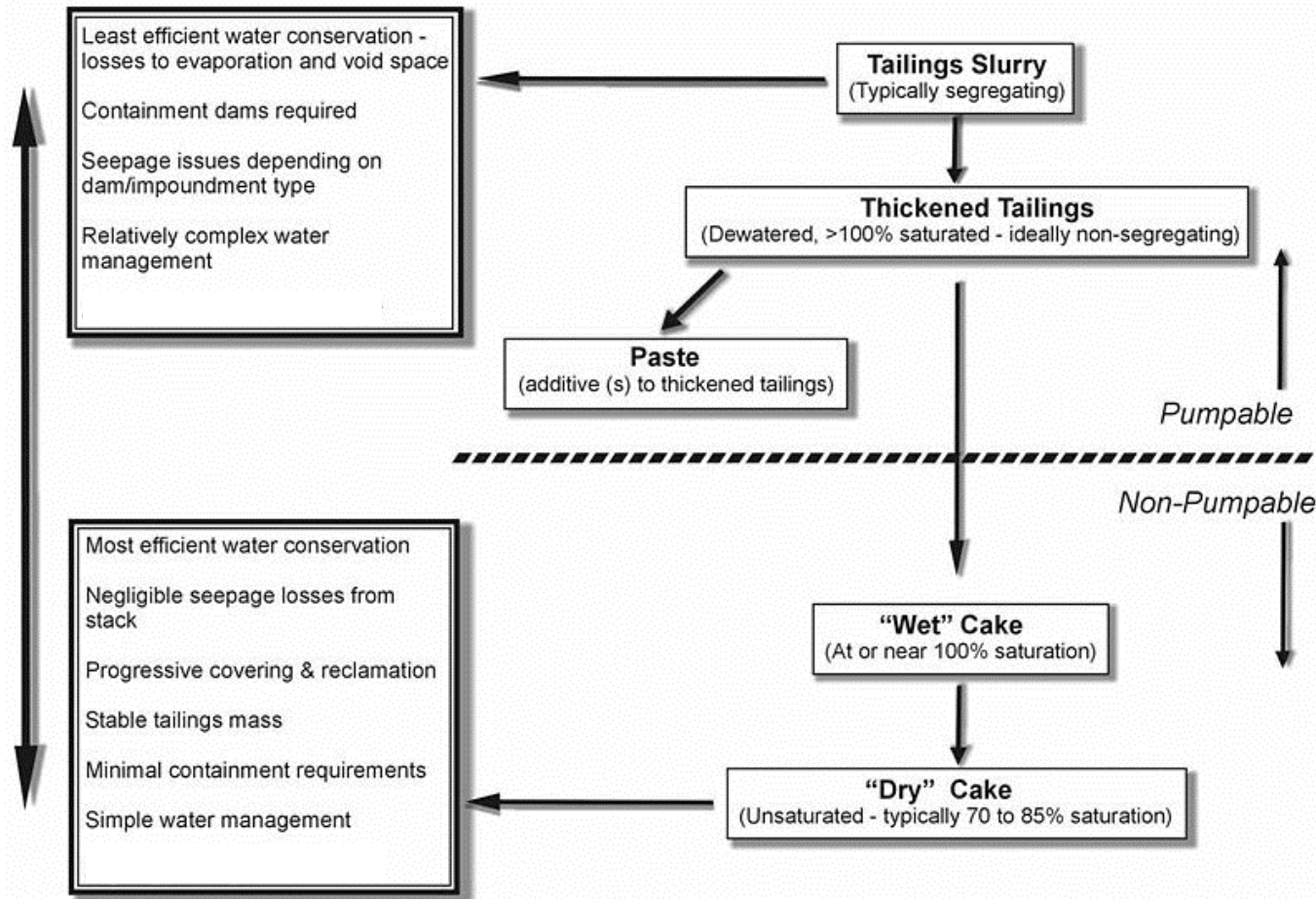
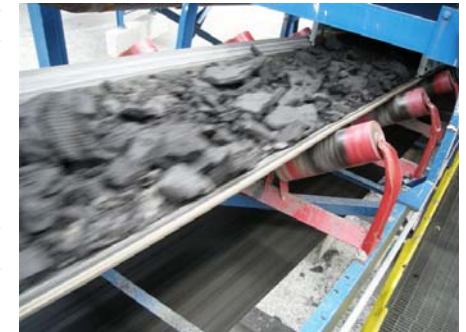
Surface thickened
Thickened discharge at Kidd Creek, ON, Canada (left)
and at Mt Keith, Western Australia (right)



Fresh paste depositing over a desiccated layer (left) and
one of the risers at the Bulyanhulu Mine (Barrick), Tanzania
(Courtesy Golder Associates)

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Wet or Dry Tailings?



Water ratio's for typical granular tailings

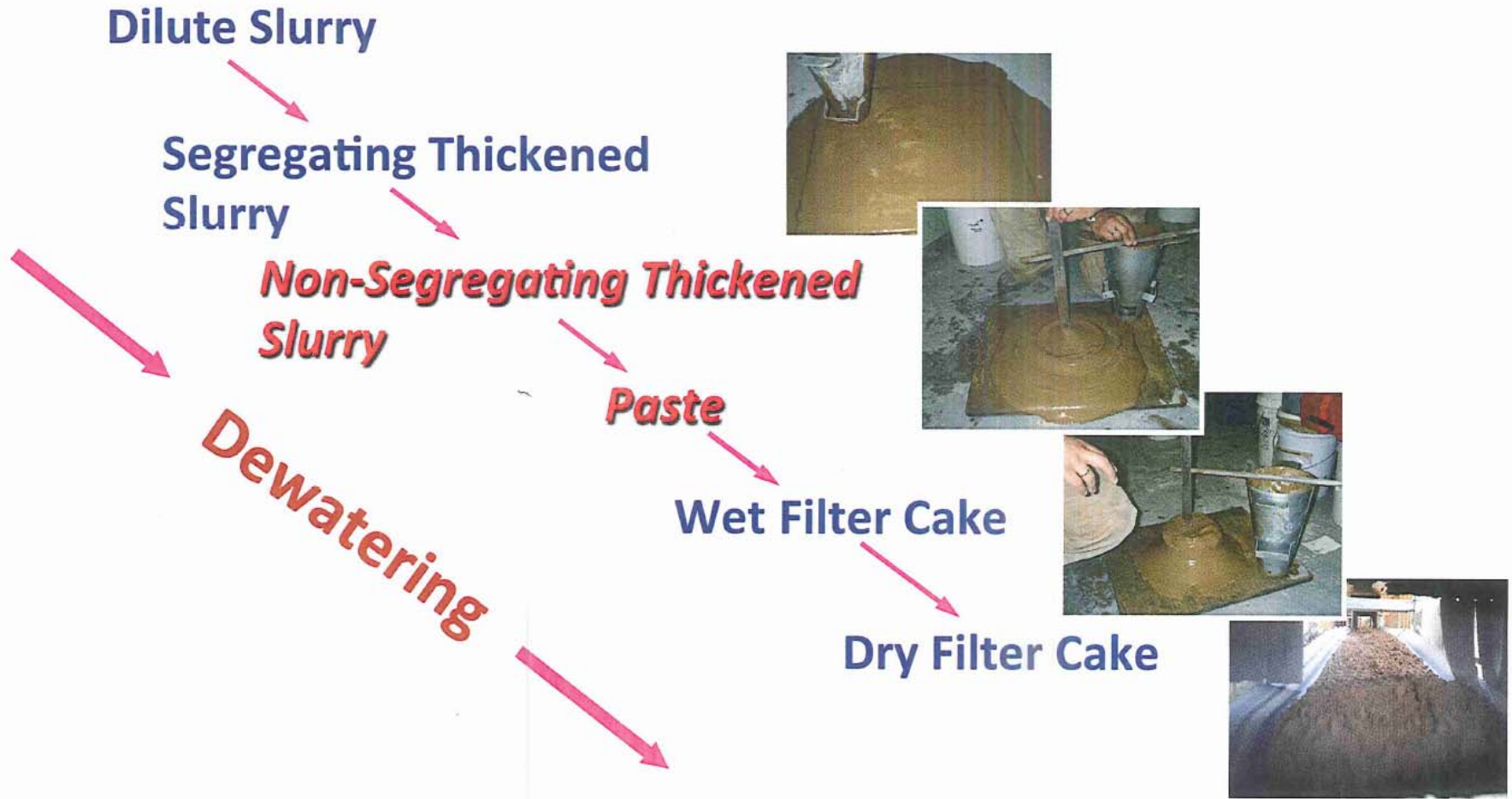


Slurry % solids	H ₂ O vol. / mt Tailings (m ³ /mt)	Description
20	4.0	Ore processing
30	2.3	Plant tailings
50	1.0	Thickened slurry
60	0.67	High Density slurry
75	0.33	Thickened to paste
82	0.21	Vacuum filter
88	0.13	Pressure filter

COURTESY MINE PASTE ENGINEERING LTD.

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Slurry Material Continuum



COURTESY MINE PASTE ENGINEERING LTD.

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Facts about Tailings and the handling processes

- *The dry tailings process will increase with new operations, especially those situated in deserts environments and areas where tailings land availability is a constraining factor*
- *Solids content in thickened tailings is between 40% and 70%.*
- *Dry cake tailings solutions can increase the solids content to as high as 85%, which represents substantial water savings for the mine*
- *Dry tailings are also easier to reclaim and have lower environmental impact risks during operation and after the closure*
- *Dry Tailings provide the lowest risk profile with respect to failures and the costs associated with cleaning up those failures.*

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Tailings accidents

The majority of historical tailings related incidents have been influenced by poor day to day management.



Accident in Stava Trento Italy, 1985
Cycloned sand tailings
Along its path, the mud killed 268 people and completely destroyed 3 hotels, 53 homes, and six industrial buildings; 8 bridges were demolished and 9 buildings were seriously damaged. A thick layer of mud measuring between 20 and 40 cm in thickness covered an overall 435,000 square m over 4.2 km. According to the subsequent inquiries, the collapse was caused by the chronic instability of the dams, especially in the upper one, which were below the minimum factor of safety required to avoid collapses.

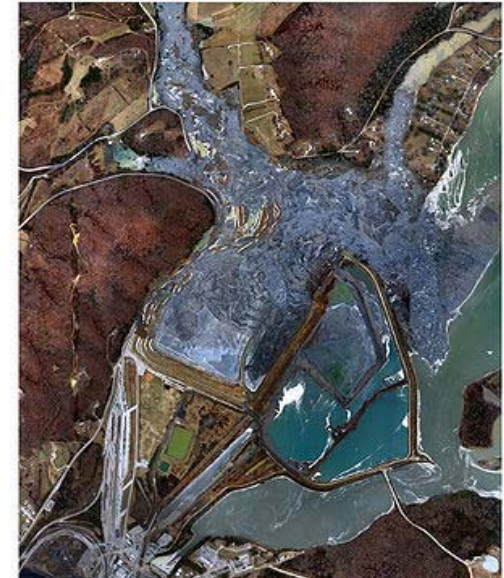


Cerro Negro near Santiago Chile 2003
Wet tailings



Marriespruit South Africa 1994
Wet tailings

Aerial Image Of Kingston Ash Slide 12/23/08



The TVA Kingston Fossil Plant coal in the USA fly ash slurry spill occurred just before 1 a.m. on Monday December 22, 2008, when an ash dike ruptured at an 84-acre (0.34 km²) solid waste containment area at the Tennessee Valley Authority's Kingston Fossil Plant in Roane County, Tennessee, USA. 1.1 billion gallons (4.2 million m³) of coal fly ash slurry was released.

Tailings accidents



The Ajka Timfoldgyar Alumina Plant Tailings Dam Accident October 4th 2010 in Hungary. Hungary's government estimated that it would cost more than US\$51 million and take at least a year to clean up the damage. Hungarian state news service MTI estimated at the time of the accident that Hungary stores about 50 million tons of the red tailings with about 800,000 tons generated annually.

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World Market for Dry Tailings

Expected high global growth



Dry Tailings Global Market Outlook & FLSmidth Strategy

FLSmidth's Tailings Strategy

2011

- ✓ One of the leading suppliers of tailings equipment and bundled products.

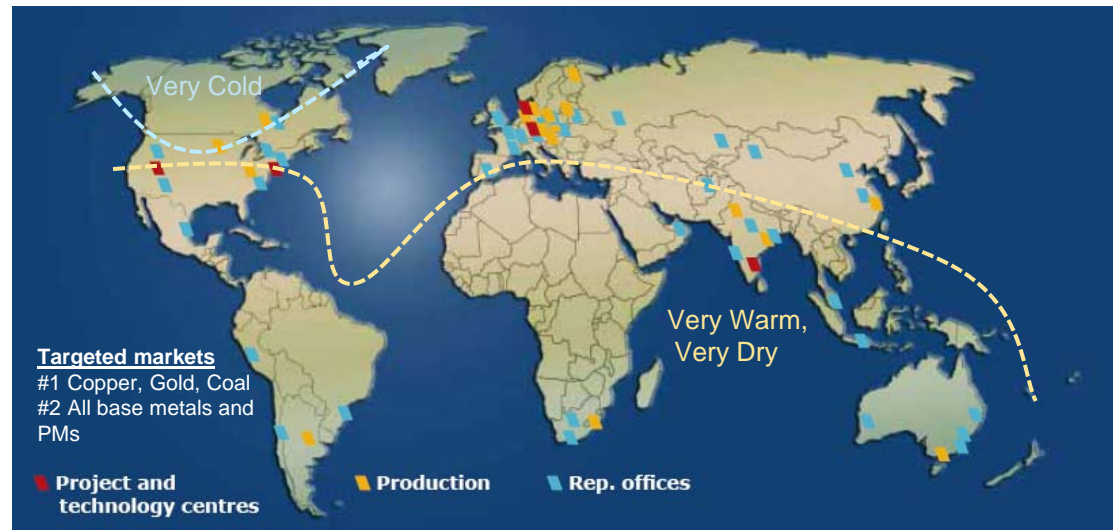
Near Future

- ✓ The leading supplier of dry tailings islands solutions.

Long Term

- ✓ The Leading supplier of dry tailings management solutions

Dry Tailings Opportunities & FLSmidth Locations



Dry Tailings

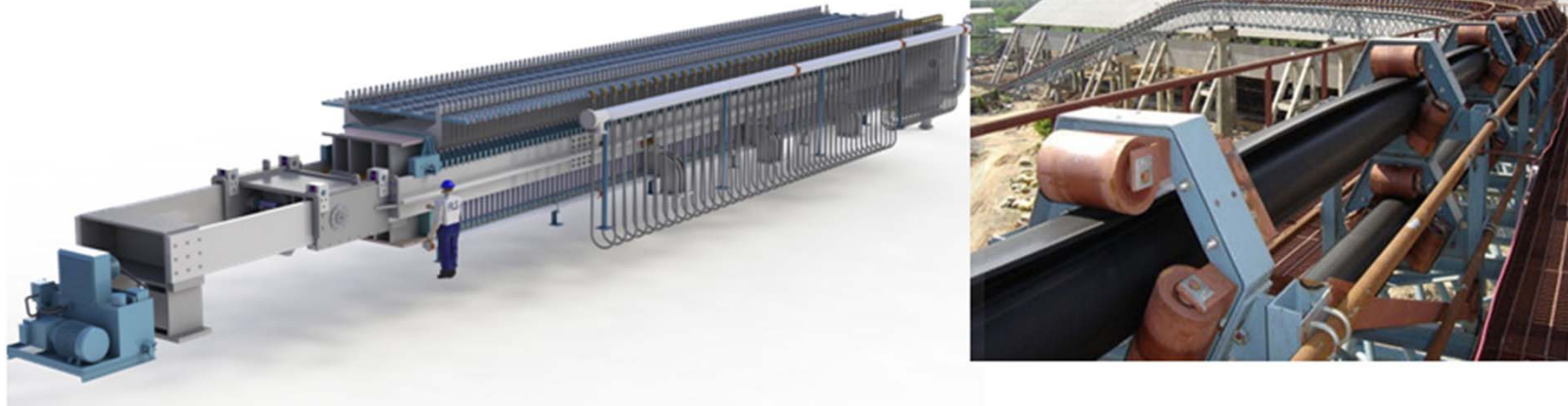
- Dry, desert areas, lack of water. Southern Hemisphere in specific
- Water issues and TSF type guided by strong environmental legislation
- Very cold climates, freezing temperatures, permafrost

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FLS Dry Tailings Solutions



Largest Minerals Filter Press for 100 000 tons/day operation



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FLS Values for Tailings Solutions

- **Sustainable solutions**
 - Dry tailings solutions
 - Recycling of water
 - Environmentally sound
 - Lower cost

- **Peace of mind**
 - Our solutions combine technical and operational reliability
 - Reliability of operations
 - Proven results
 - Proven technology
 - Experience
 - References
 - Process knowledge
 - One source for solutions or individual equipment
 - Tailings islands
 - Customer Service
 - Maintenance contracts

- **Low TCO**
 - Our approach is holistic concentrating in effective tailings solution for the life of the mine
 - Cost of water
 - Our industry presence, customer contacts and large reference give basis for continuous innovation
 - Productivity of the equipment
 - Leading technical solutions
 - Parts, spares, wear materials
 - Automation and monitoring
 - New methods
 - System integrations

- **Customized solutions**
 - We provide individualized solutions which meets the specific customer tailings management requirements
 - Wet or Dry
 - Different minerals and materials
 - Different conditions
 - Different production requirements

FLSmidth Filtration

Key filter lines



Vacuum Filters

- Horizontal
 - Belt Filters and Pan Filters up to 250m²
 - High Performance and Flexible
- Vertical
 - Drum Filters and Disc Filters up to 310m²
 - Simple, Robust and Reliable

Pressure Filters

- Horizontal
 - Filter Press up to 24m² volume, 960m² area
 - Simple, Robust and Reliable
- Vertical
 - Pheumapress up to 100m² area
 - High Performance and Flexible



Installed Base
+30,000

Global Clients



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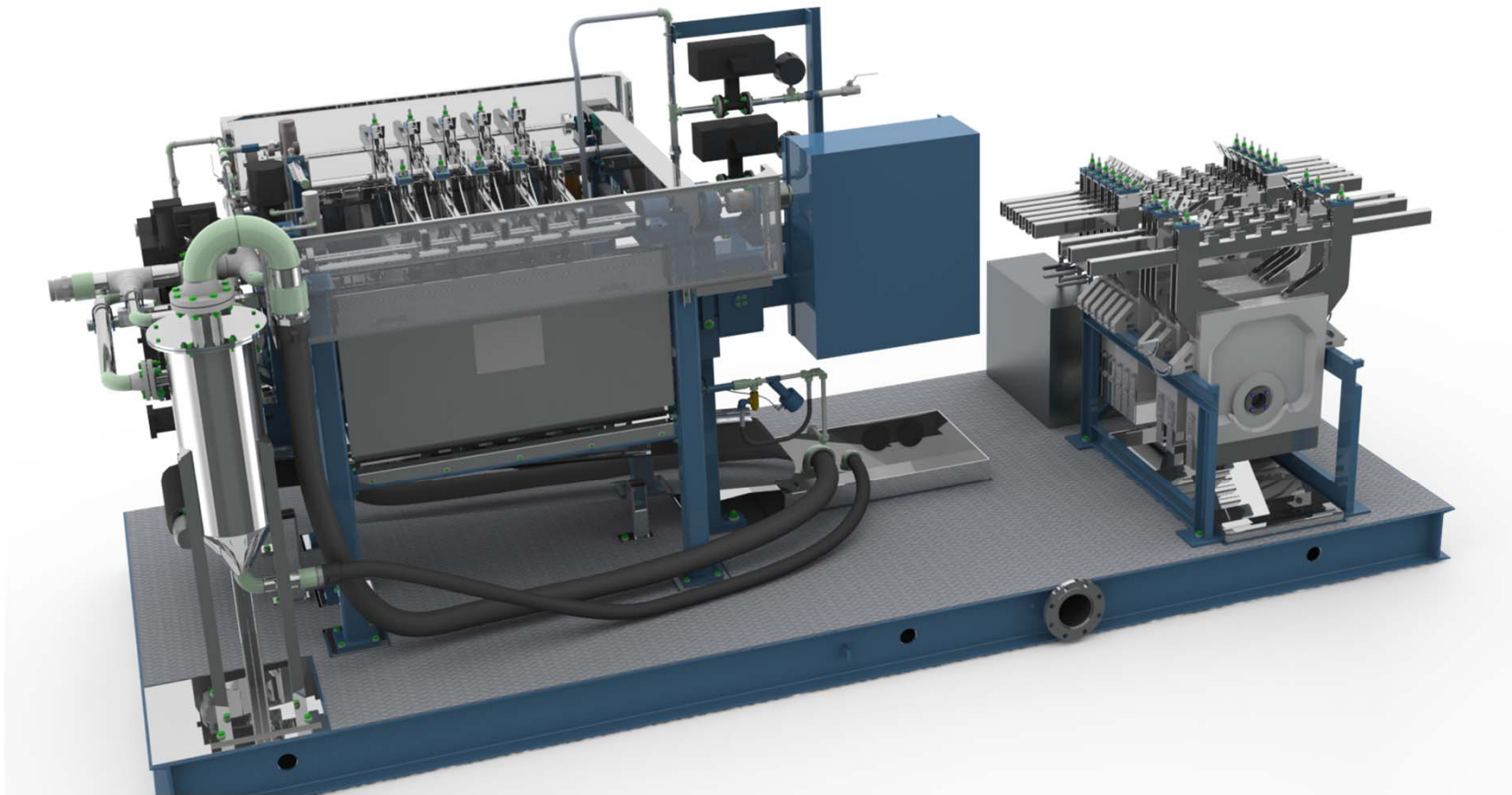
One Source

Lab and Pilot Testing



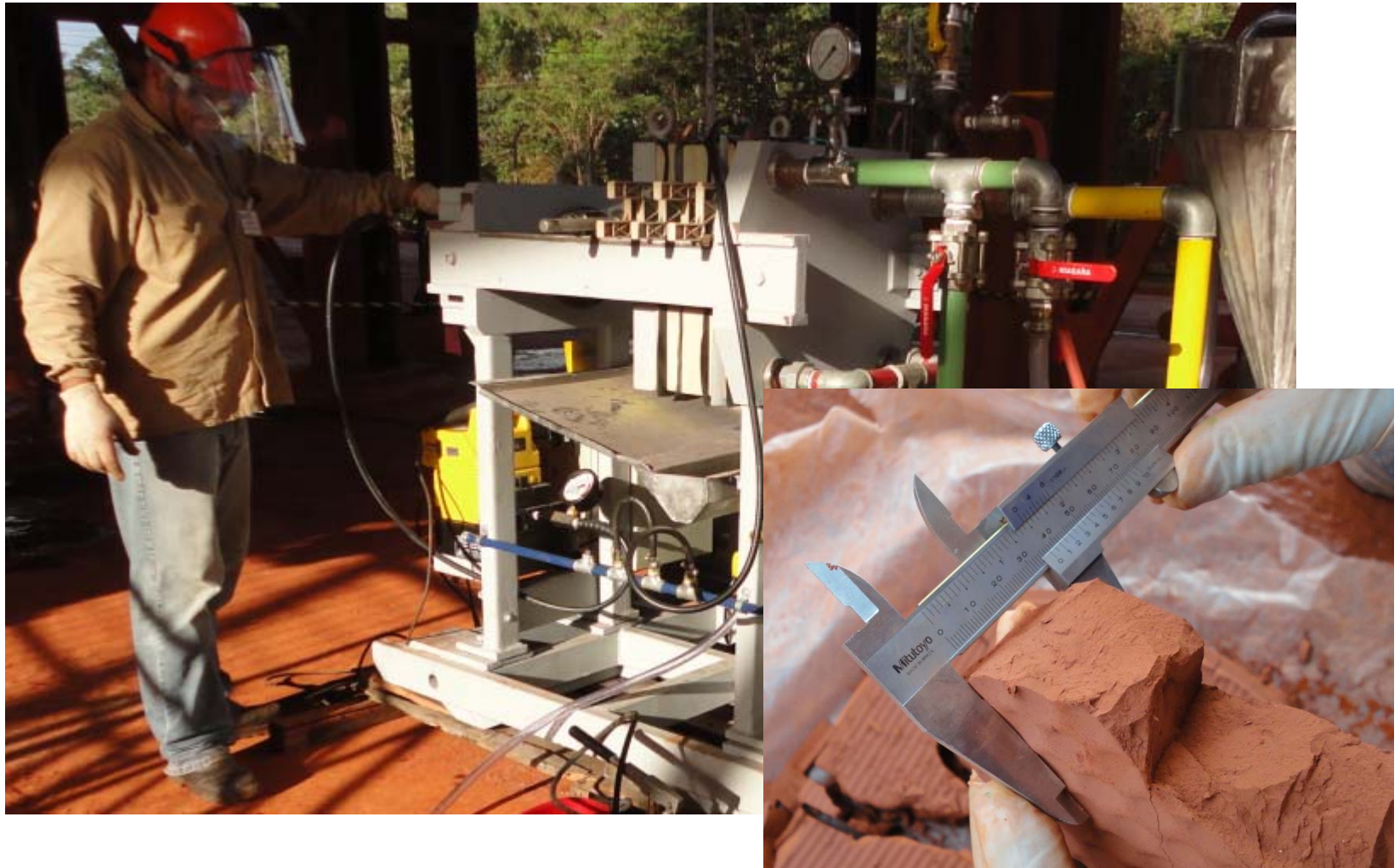
Bench-Scale and/or Pilot Testing are used to determine material filtration characteristics For equipment proper selection and sizing.

AFP Pilot Unit



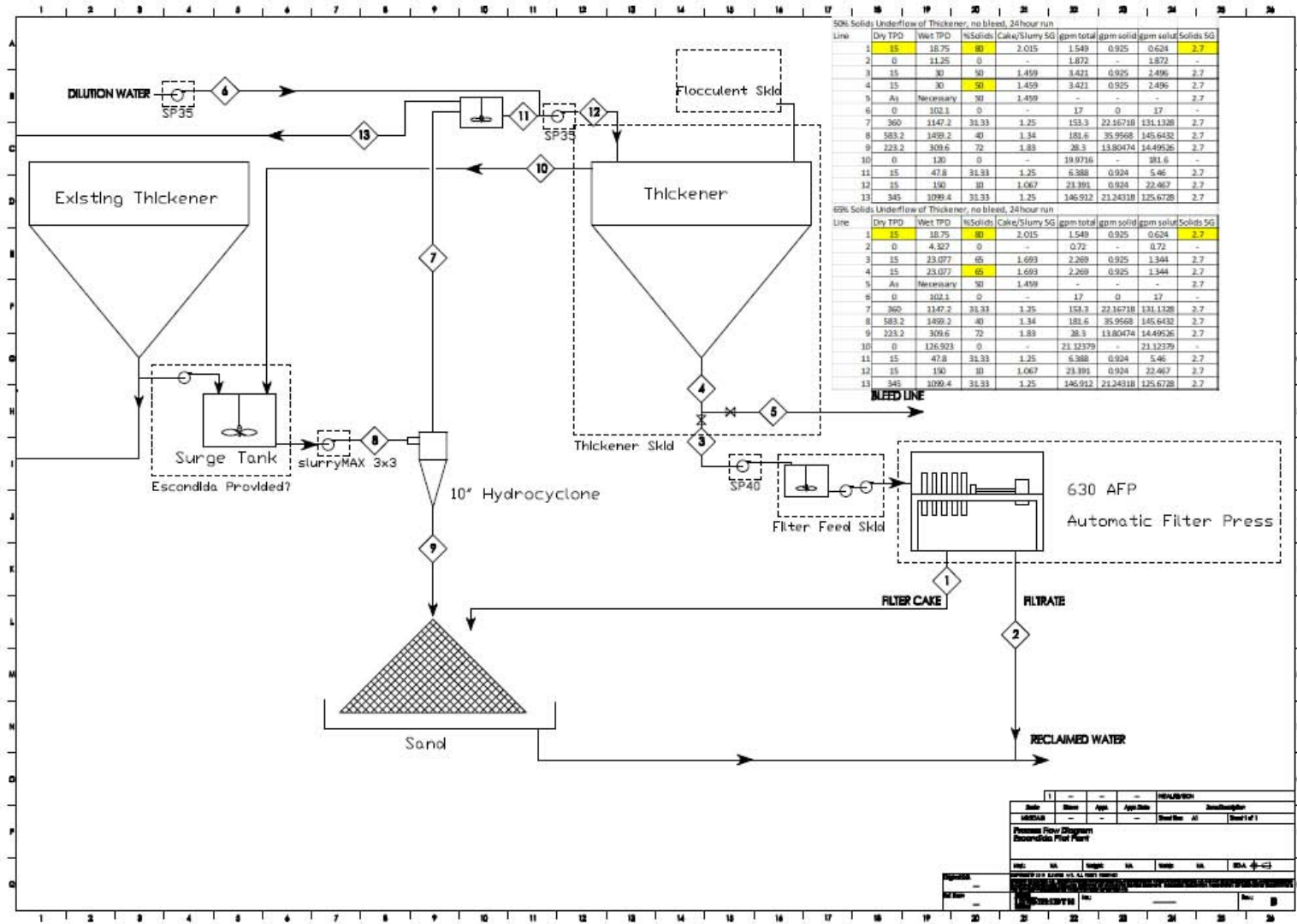
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FLSmidth Pilot Filter Press 500mm Membrane Mixed-Pack Plate Stack



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Tailings Dewatering Options Tested



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Options for Tailings Dewatering

FILTRATION CYCLE TIMES	
(Minutes)	
Fill Empty Filter	1.48
Filtration to Solids Consolidation	5.51
Wash Solids	0.00
Inflate + Hold + Deflate Membranes	0.00
Cake Blow	0.25
Core Wash/Blow	0.50
Shake Cloth	0.50
Filter Cloth Wash & Purge	0.50
Open & Close Filter	1.89
Total Cycle Time	10.63

FILTRATION CYCLE TIMES	
(Minutes)	
Fill Empty Filter	0.81
Filtration to Solids Consolidation	5.38
Wash Solids	0.00
Inflate + Hold + Deflate Membranes	0.00
Cake Blow	0.25
Core Wash/Blow	0.50
Shake Cloth	0.50
Filter Cloth Wash & Purge	0.50
Open & Close Filter	1.50
Total Cycle Time	9.44

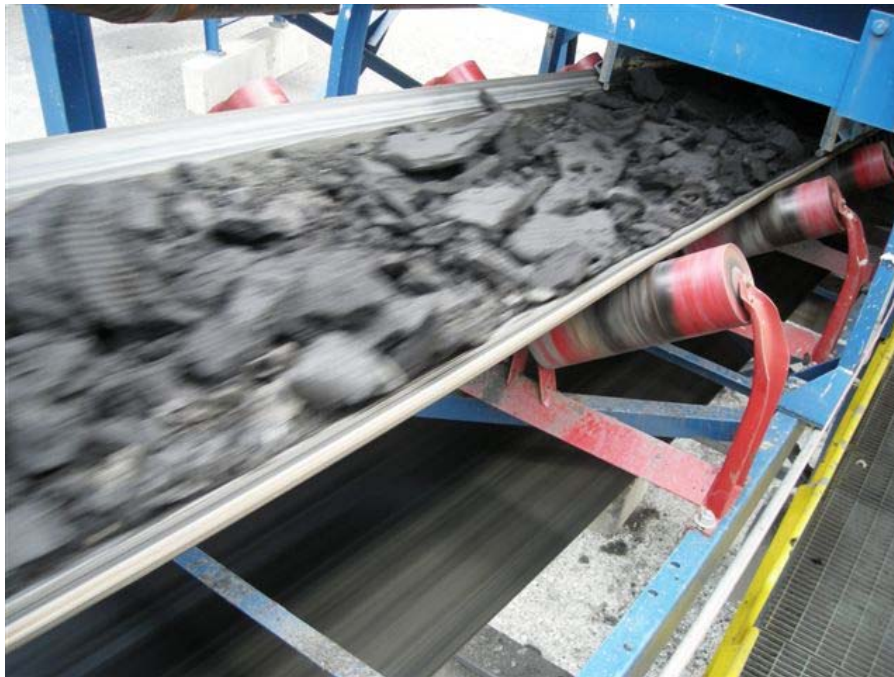
Fine Tails – Cyclone Overflow
 26% Cake
 P80 - 30.5

Total Tails
 18 % Cake
 P80 – 204

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Most Effective Solution – Filter Cake

Filter Press Technology Produce Consistent Dry Cake w/o the Need for Expensive Polymers



Refuse Belt



Coal Refuse Filter Cake

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Full Range of Filter Press Products



Low Cost
Standard
Products

- Filter Presses from small to large / Fully and Fully Automatic to Fully Manual



High
Performance
Advanced
Products

- Worlds Largest Minerals Filter Press → 10% capital cost saving
 - 120 Chambers – twice the size of Competitors
 - 2x2 lower feed eye filter plates



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Key Elements for Cost Effective Filter Design



- *TCO must be competitive with traditional solutions*
 - *High Initial Costs > \$100,000,000 USD*
 - *Low Operating Costs > \$0.75 USD/ton*
- *Minimize Filtration Capital Costs*
 - *Minimize Cycle time*
 - *Maximum Filter Size*
- *Minimize Filtration Operational Costs*
 - *Minimize energy usage*
 - *Eliminate wasted energy*
 - *Minimize Cloth Consumption*
 - *Use cost effective design*

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For High-Volume Production Large-Scale Filters with 2M x 2M Plates



- Filter Specifications:**
- 2 x 2 Plates
 - 16 bar rated
 - Overhead Type
 - 100 Bar Cloth Washer

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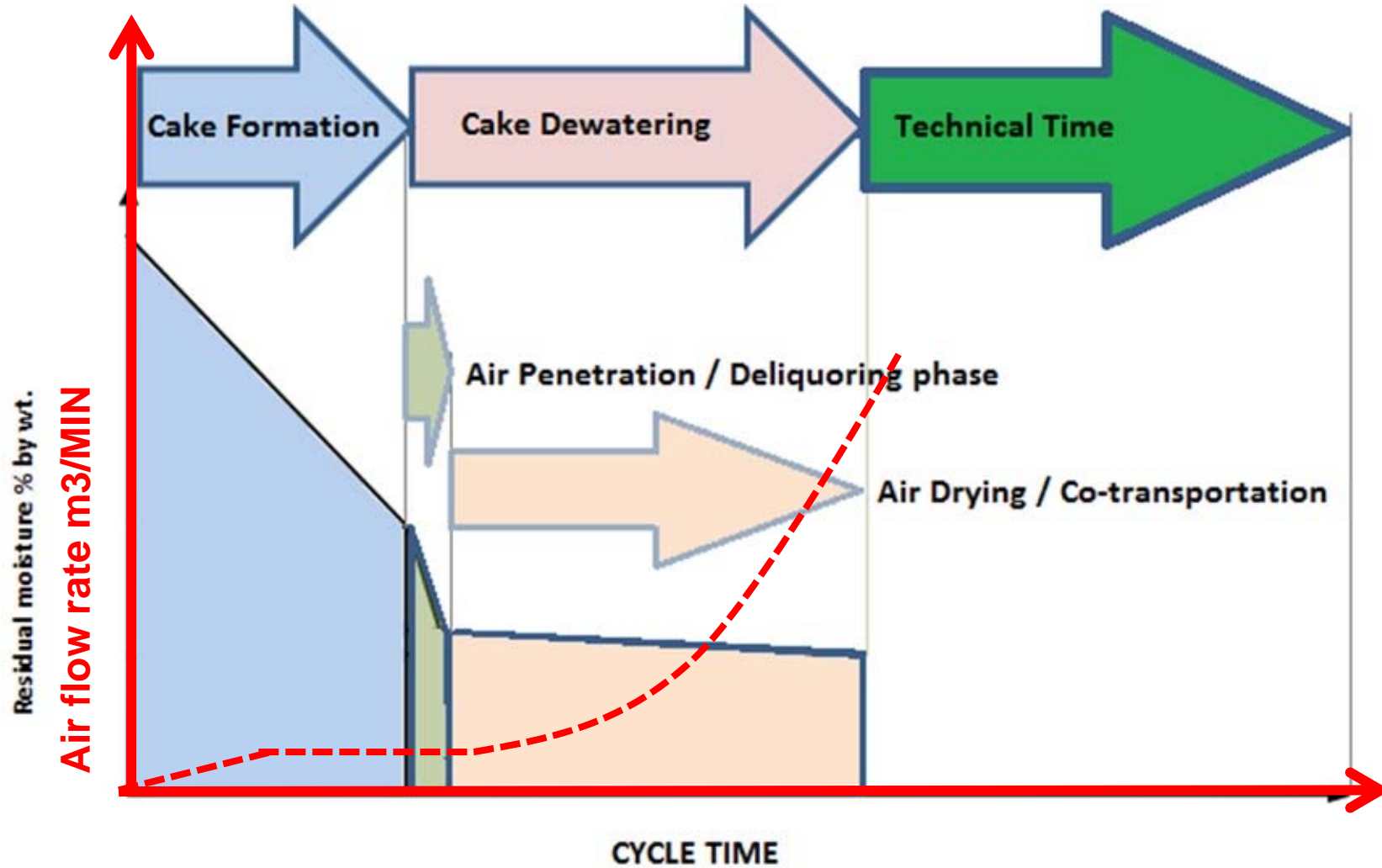
Single Plate Indexing – Discharge = 10 min.



Shriver® Filter Press

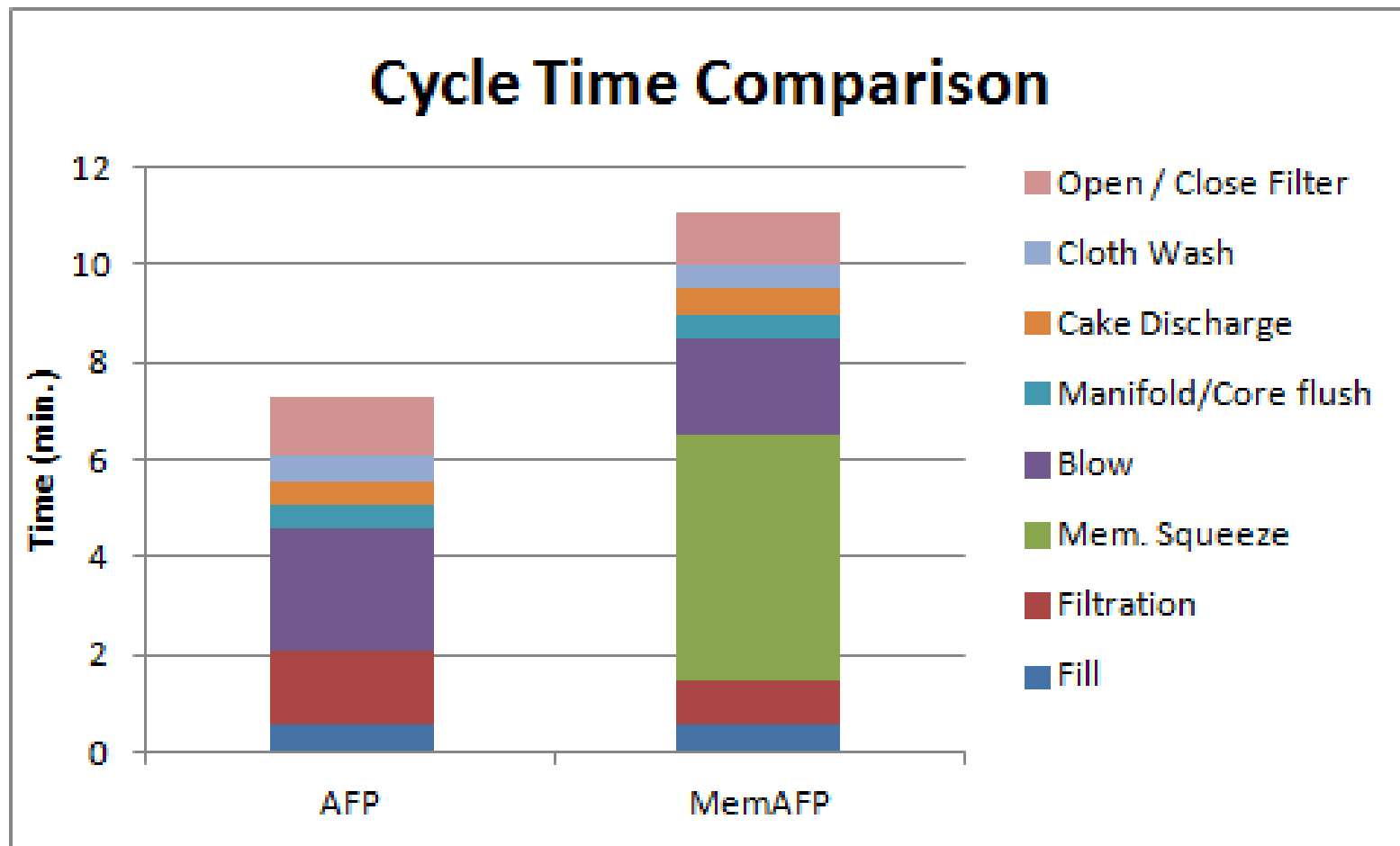
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Cake Filtration STAGES - Dewatering



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Typical Tailings Cycle Time

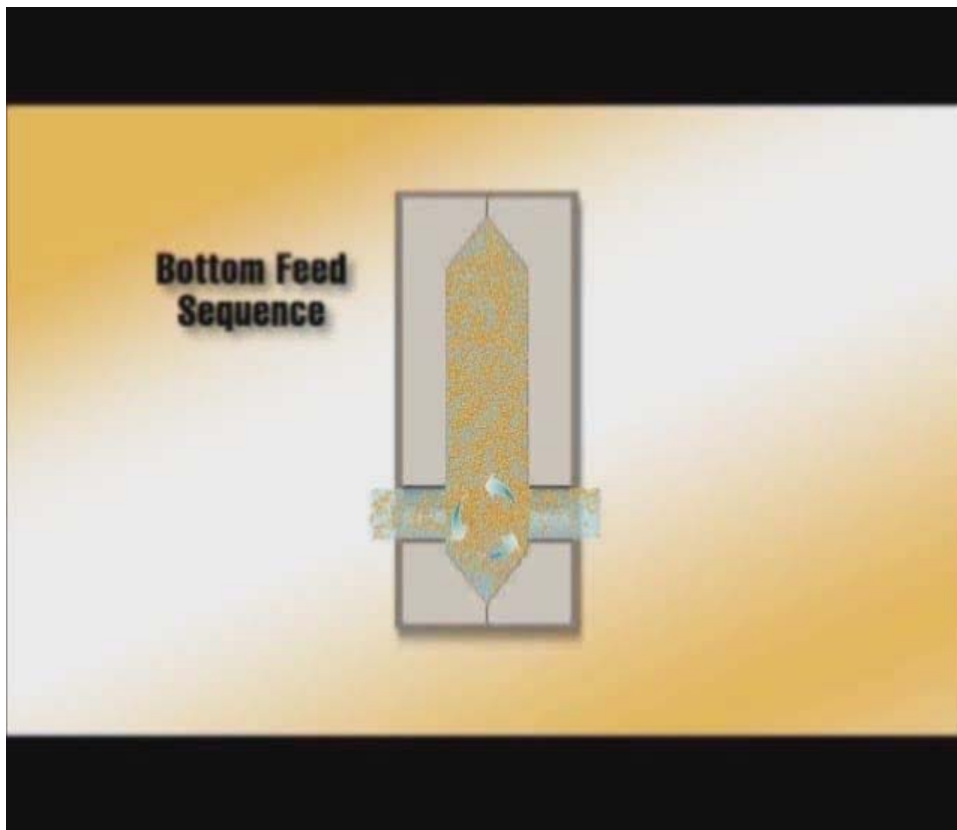


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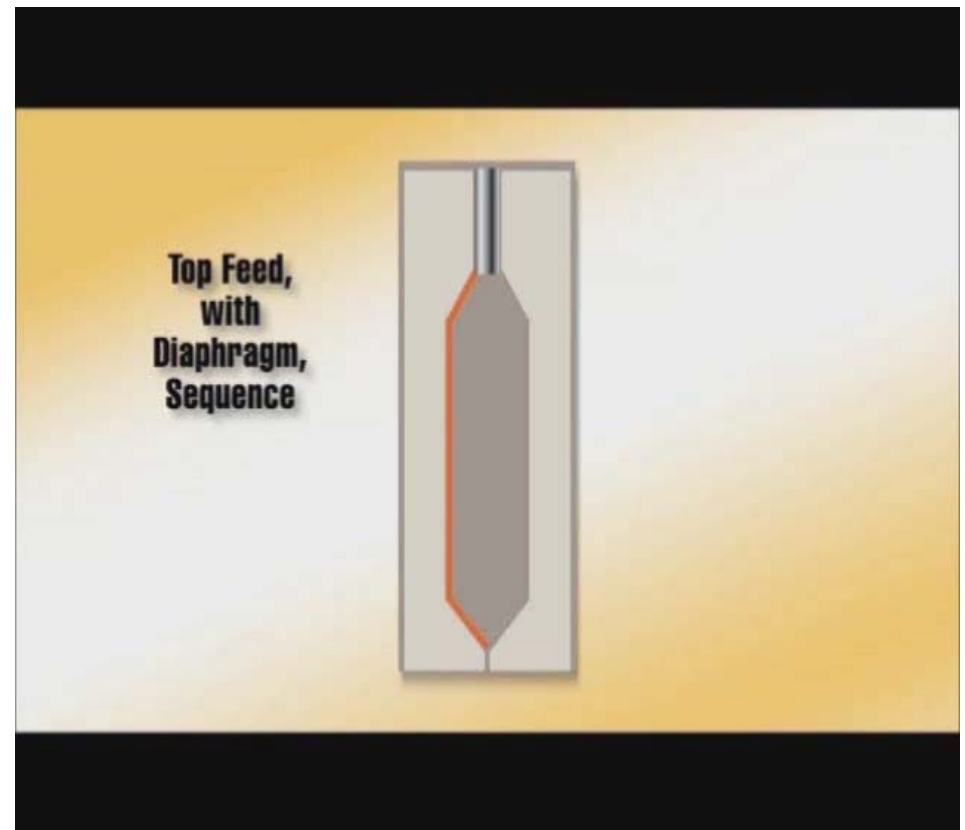
Minimize Cycle Time Eliminate Membranes



Bottom Feed Recessed Chamber



Top Feed Membrane



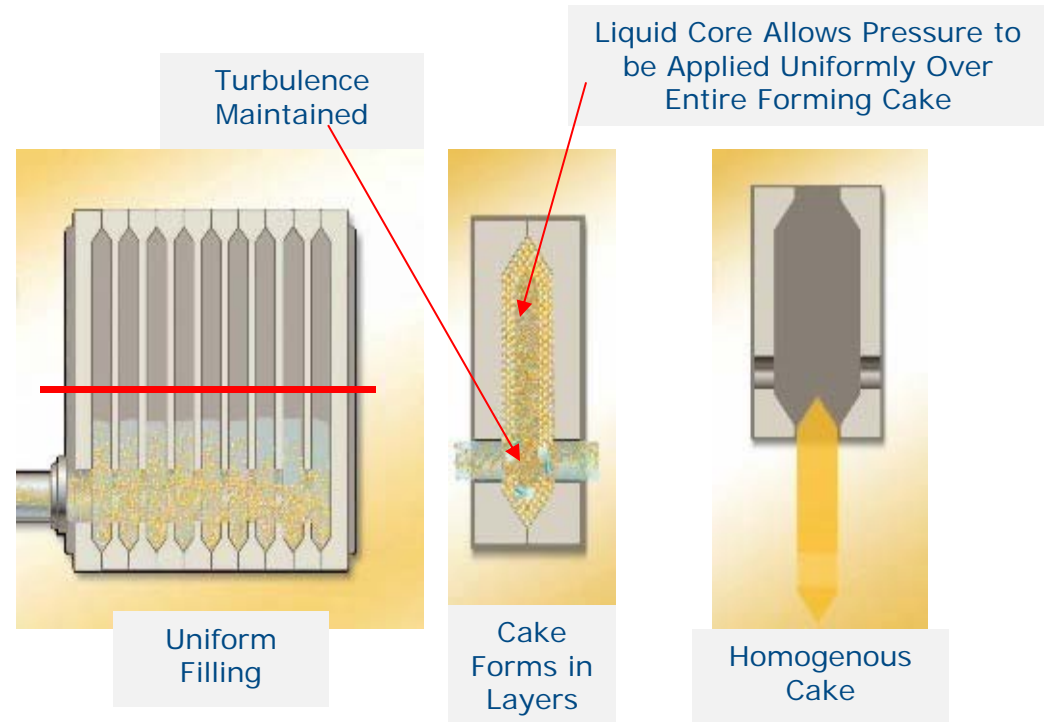
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AFP IV™ FILTER

Filtration Pressure



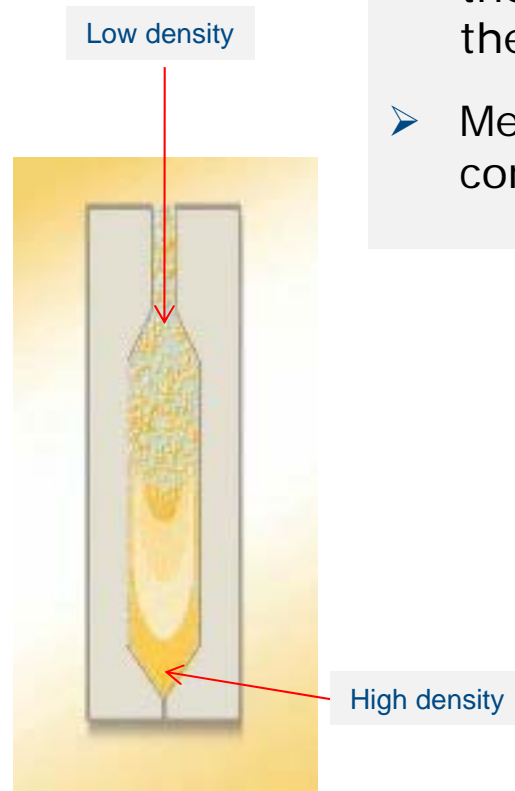
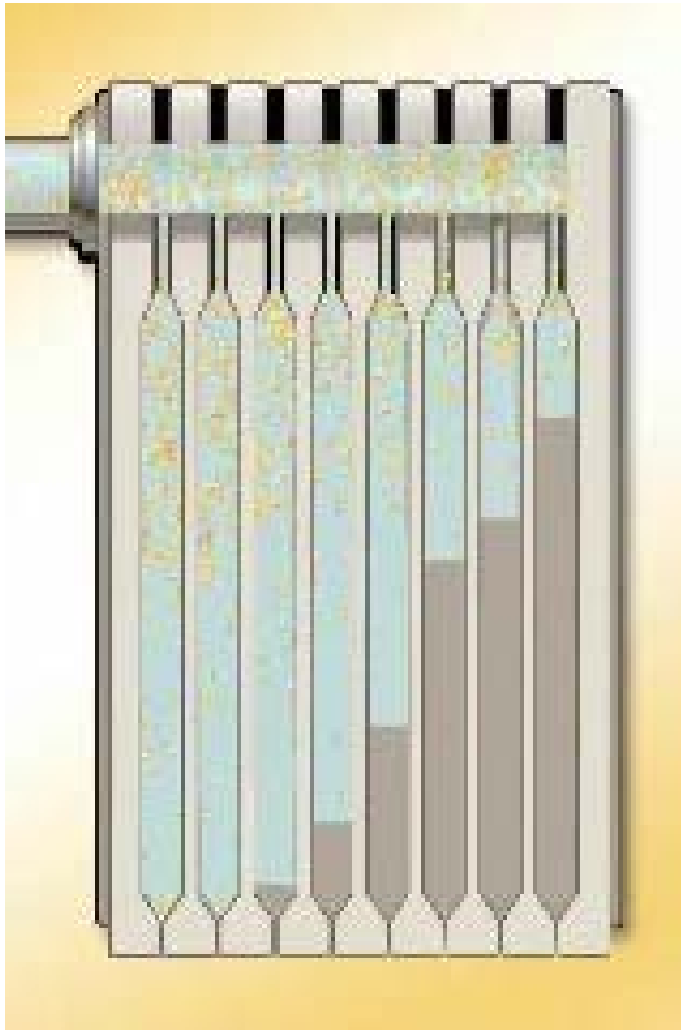
- Slurry Pumps Are Used To Create The Filtration Flow and Pressure
- VFD control ensures pumps operate to required filtration curve.



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Competition

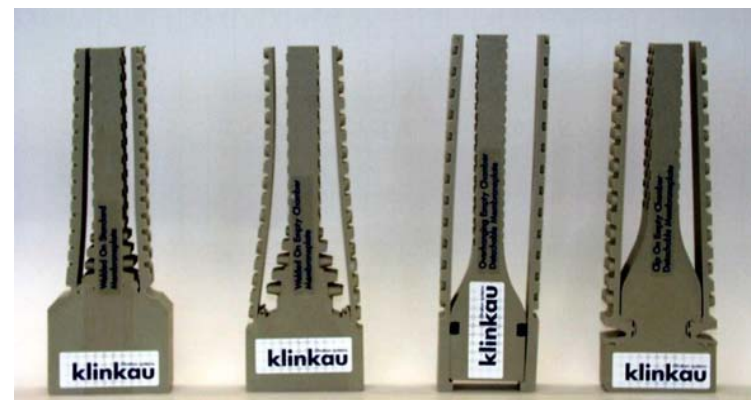
Upper Feed Eye



- Chambers fill in series, not in parallel
- Cakes are more consolidated at the bottom of the plate than at the top of the plate
- Membranes are required to consolidate into even cakes

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PLATE DESIGN



Membrane Plate Section

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Filter Plates Comparison

Top Feed

- **Membranes required**
- Plate removal not required for cloth change
- Plate life limited
- Cost up to **US\$ 20,000** each
- Membrane accessories needed – higher Opex
- Longer cycles for membrane squeeze means less production per cycle and more filter press area required

Bottom Feed – FLS Technology

- **No membranes** required
- Remove plate for cloth change – Not significant
- Plate life extended
- Cost **US\$2,000** each

**Minimize Cycle Time
Discharges In < 1 Min.**

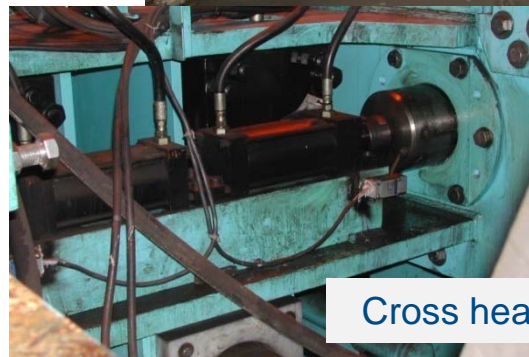


AFP IV™ Automatic Filter Press

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Cross Head System

Discharges 120 Chambers in < 1 Min.

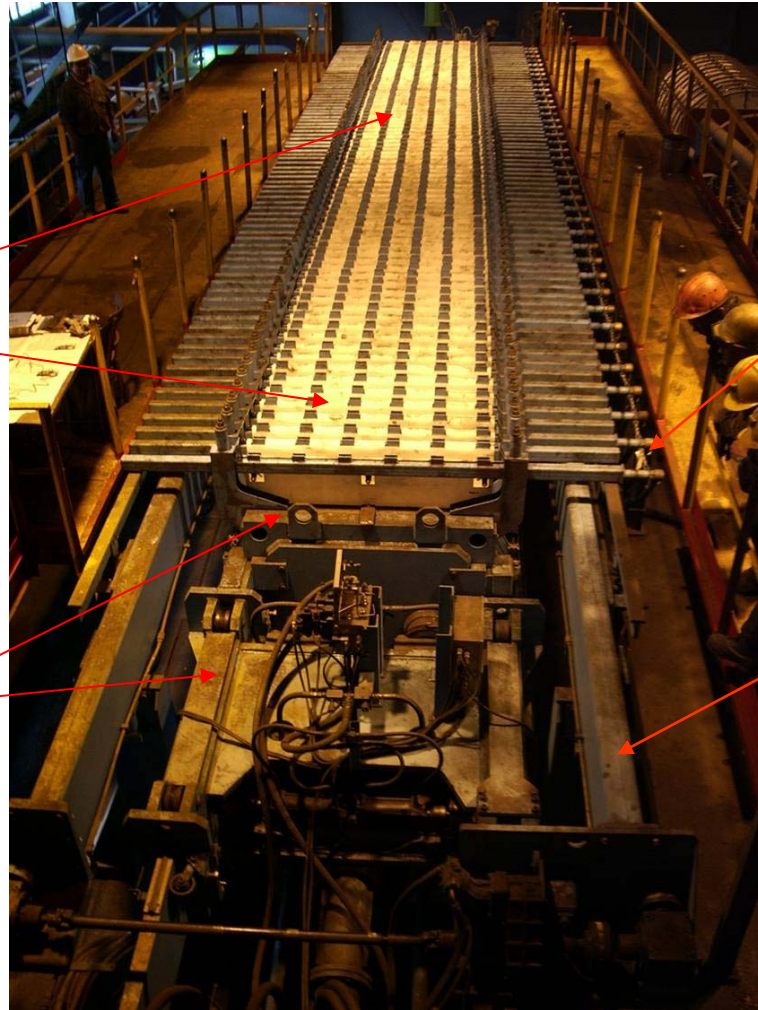


Cross head system lock pins

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Optimized Design



Filter Plate System

Flood Wash System

Rolling Crosshead and Follower

Shaker

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The Heart of Filtered Tailings AFP IV™ Automatic Filter Press



Filter and Drip Tray on Assembly Floor

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AFP IV™ Automatic Filter Press

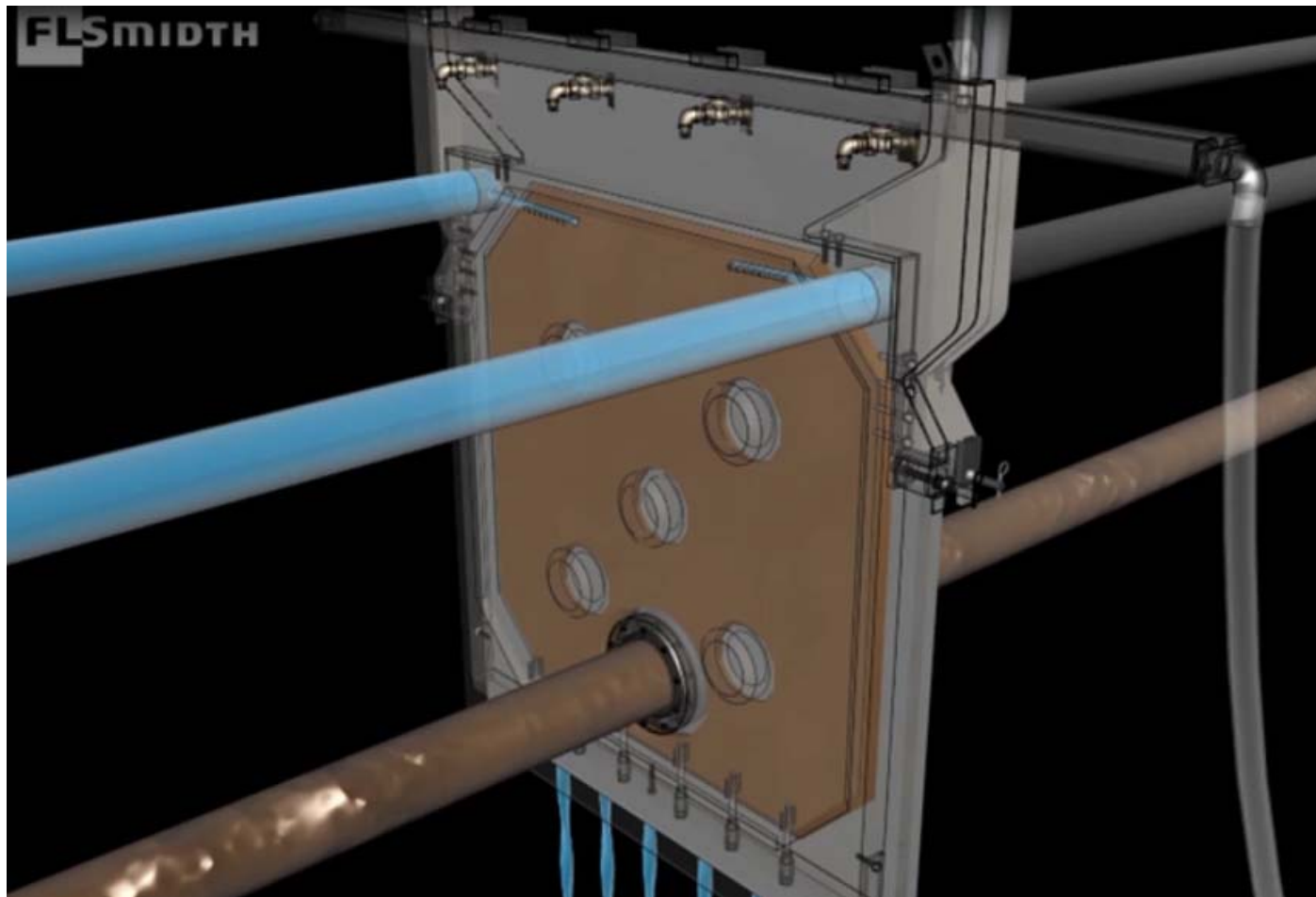
A large, light gray rectangular area containing the FLSMIDTH logo in the top left corner and the text "2x2 AFP Operation" in the center. The text is in a bold, blue, sans-serif font with a slight drop shadow.

**2x2 AFP
Operation**

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Automatic Filter Press

AFP Operation (without Cake Wash)

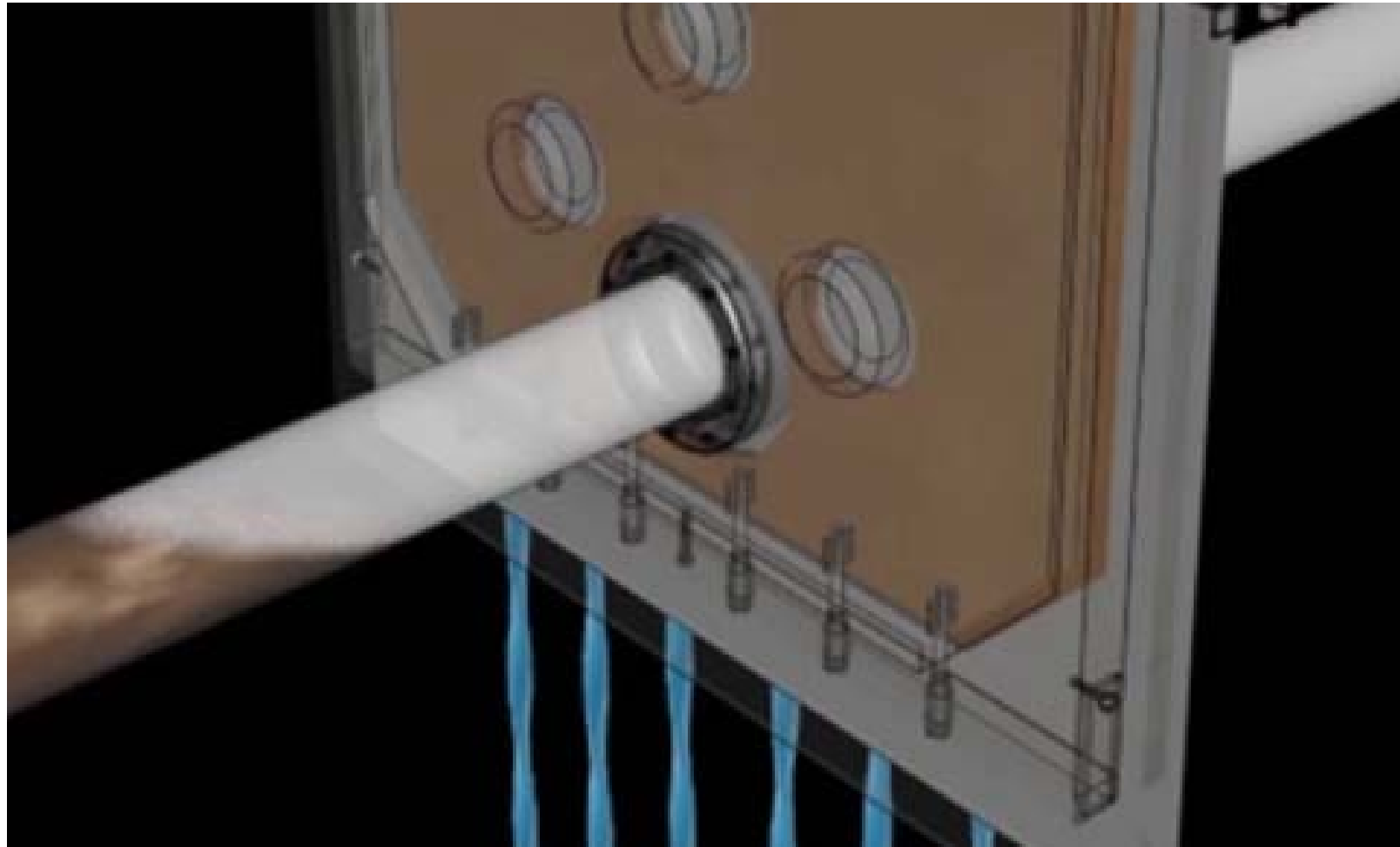


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Automatic Filter Press

Core Blowing to Clear Feed Eye

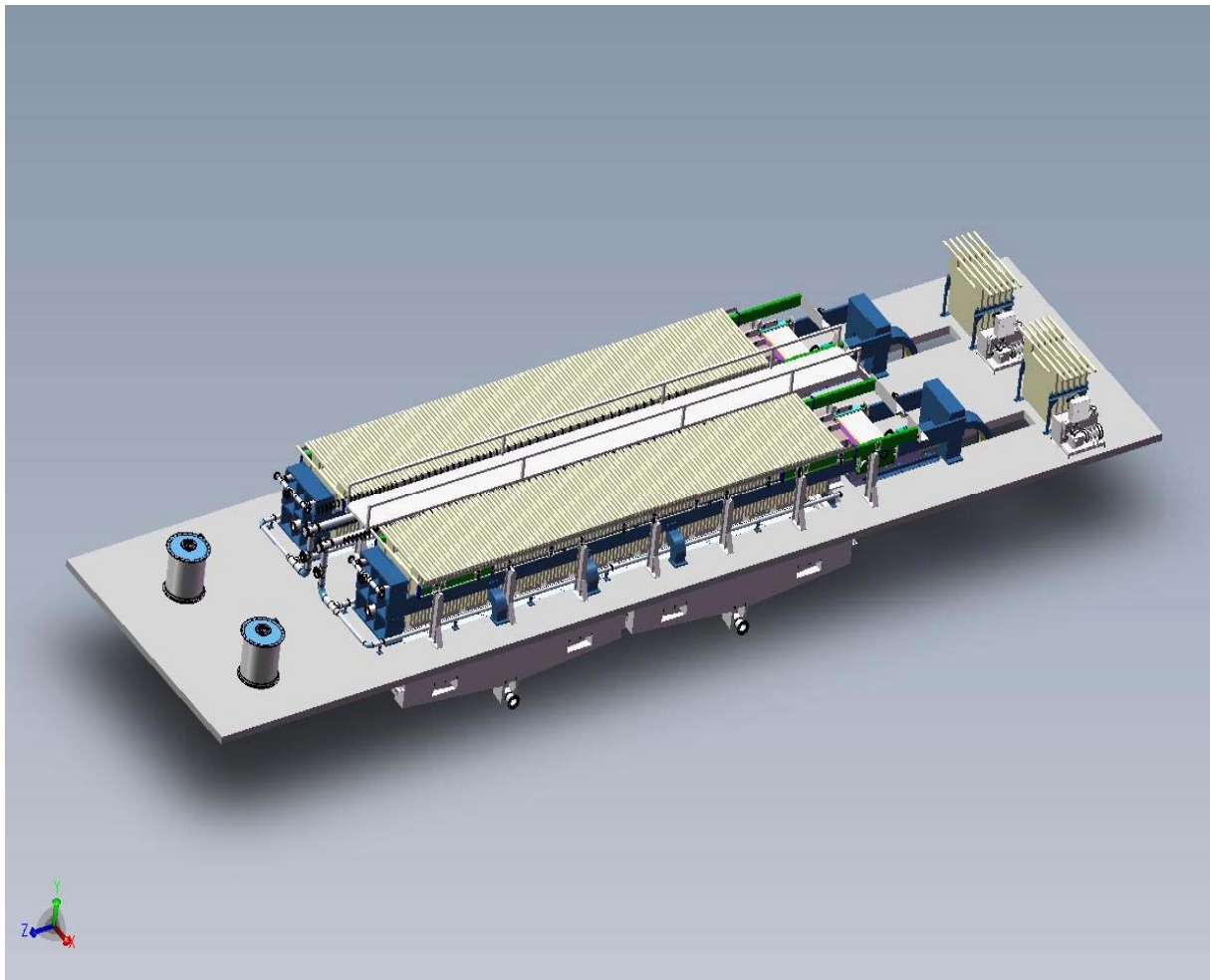


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One Source

For High-Volume Production

Large-Scale Filters with 2M x 2M Plates



Filter Specifications:

- 9,015 ft² (838 M²)
- 475 ft³ (13.5 M³)
- 225 psi (16 bar)
- Dry Wgt: 165 tons



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Typical Open Discharge Arrangement

Filtrate is
Discharged
Directly to the
Drip Tray or
Launder



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Flood Wash Arrangement

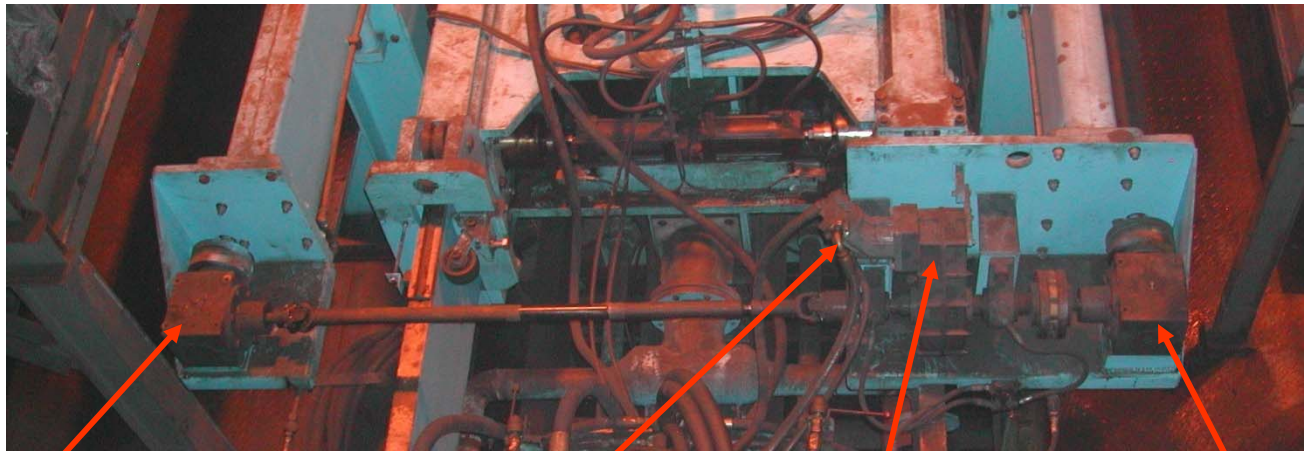
Water Connection

Bottom Wash Supply



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Shaker System



Right Angle
Gearbox

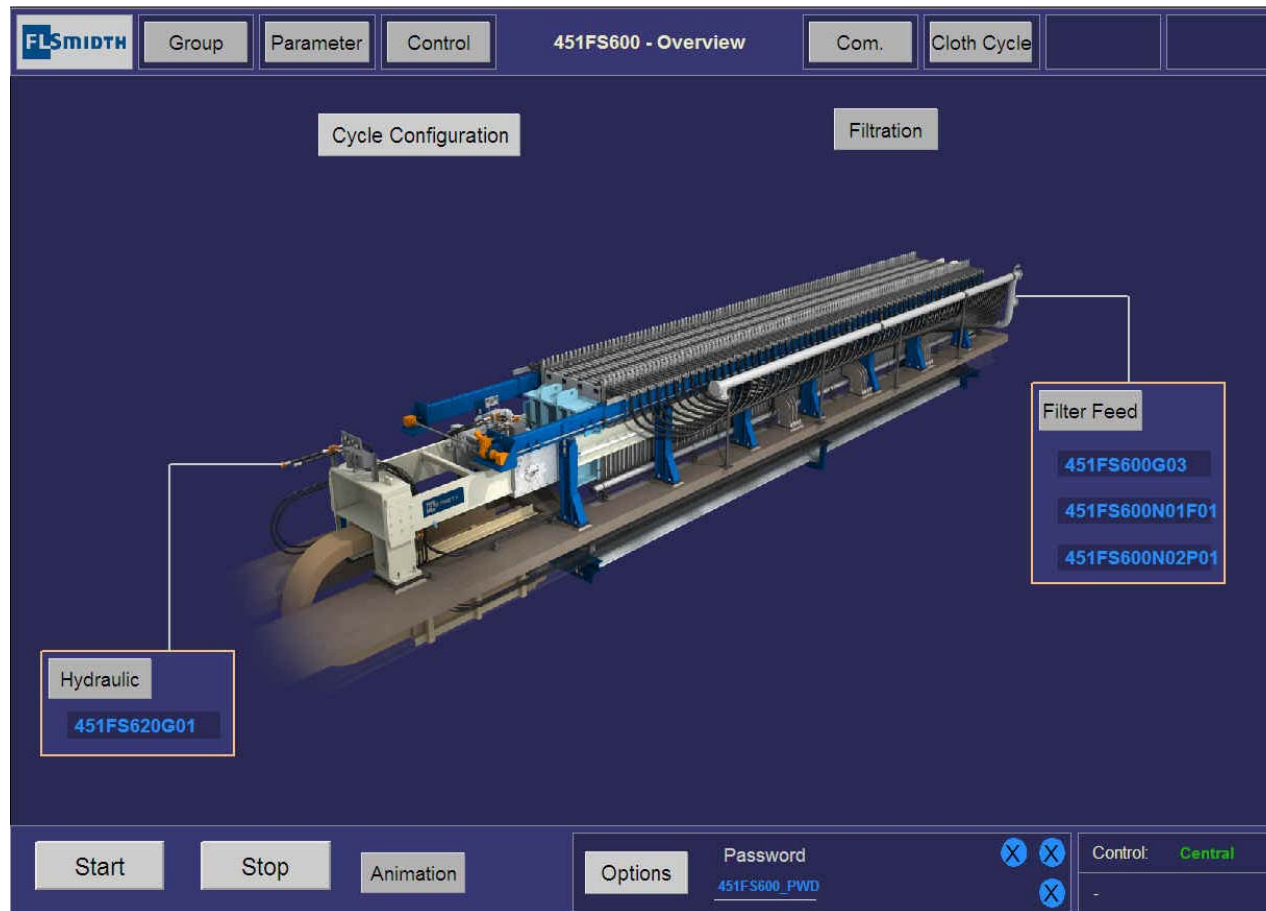
Hydraulic Motor

Gear Box

Right Angle
Gearbox

Shaker Drive Configuration

FLSmidth Automation Controls w/Local PLC and DCS Connectivity

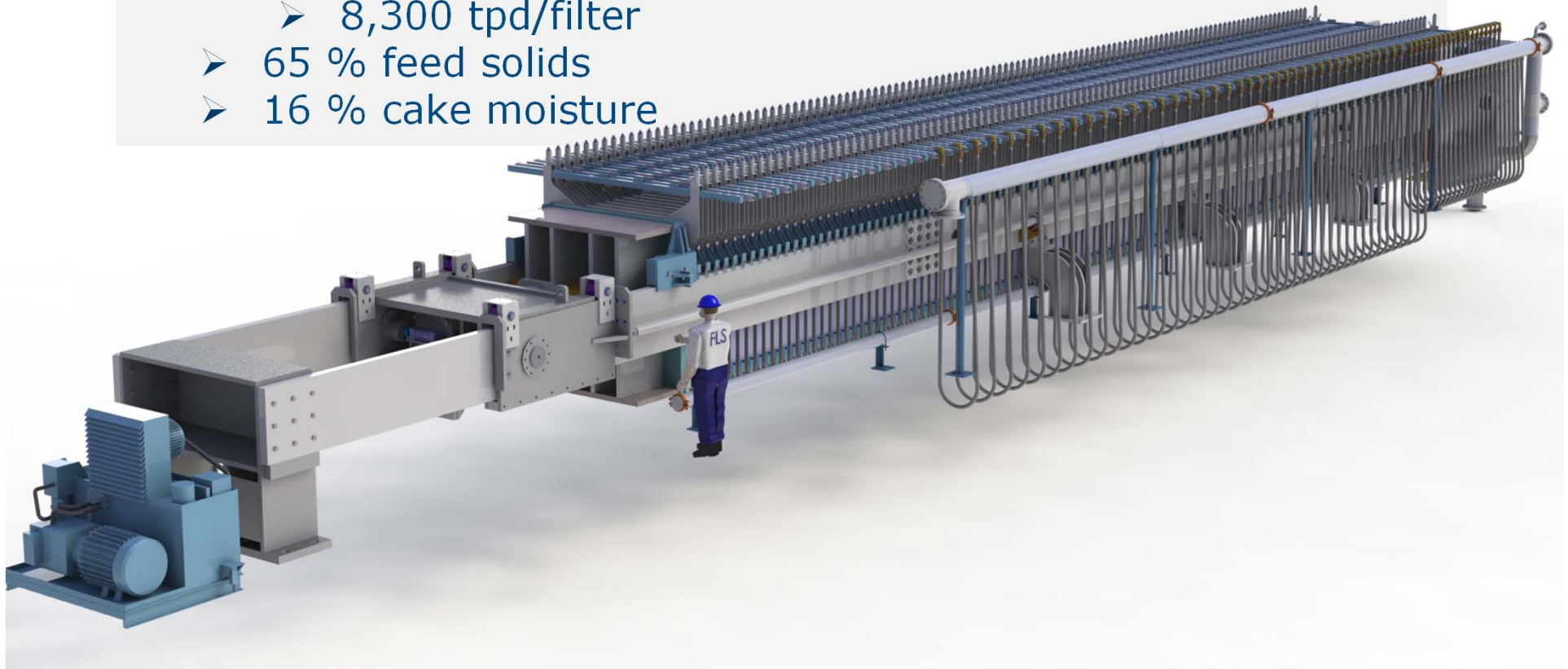


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Copper Tailings Filtration

Largest Operating Minerals Filter Press

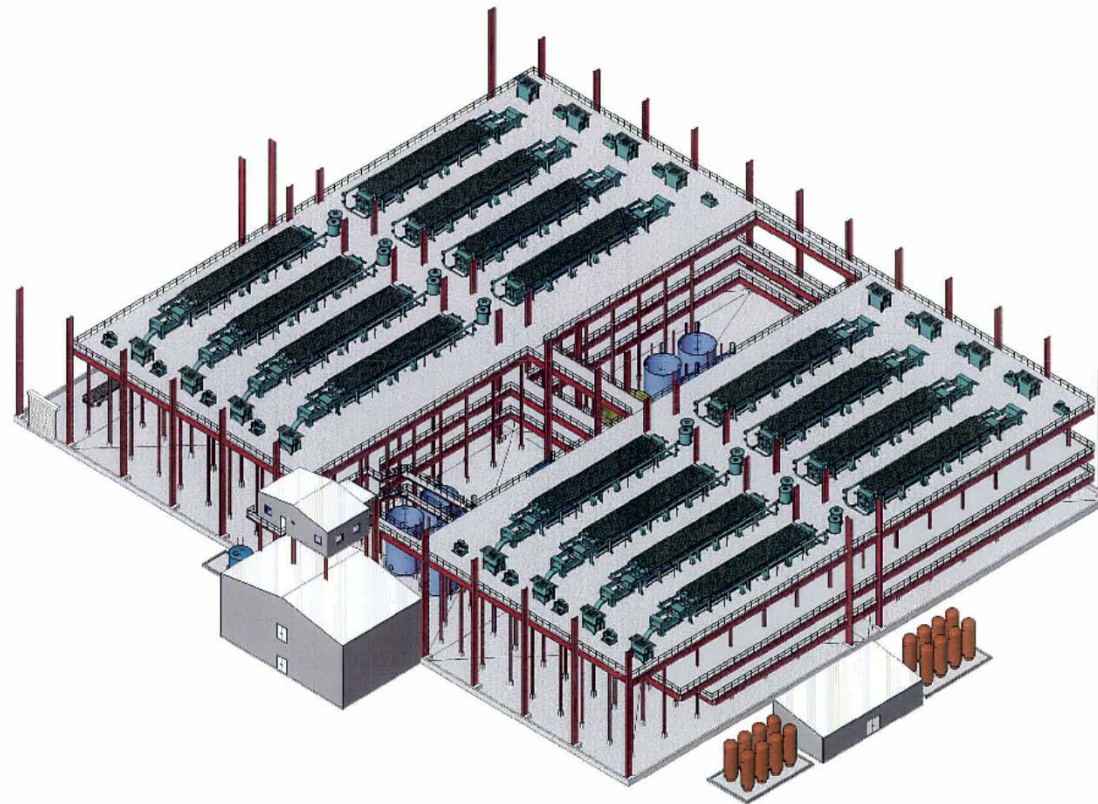
- (14) (12 operating 2 spare) 2x2 AFP Filters
- 120 Chambers
- Capable of 100,000 mt per day
 - 8,300 tpd/filter
- 65 % feed solids
- 16 % cake moisture



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Rosemont Copper Tailings Filtration

Total Tailings Dewatering



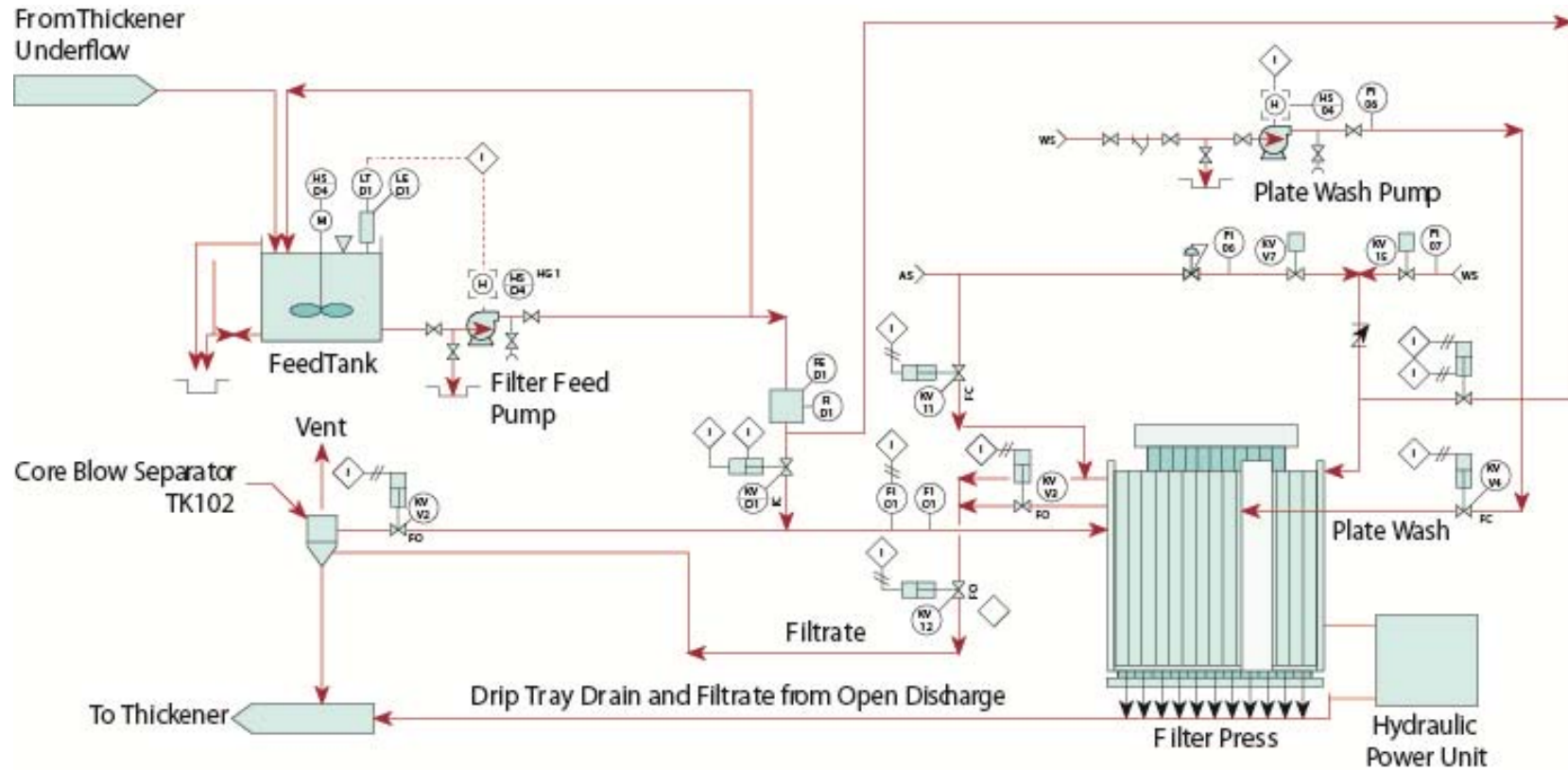
5049' 8"

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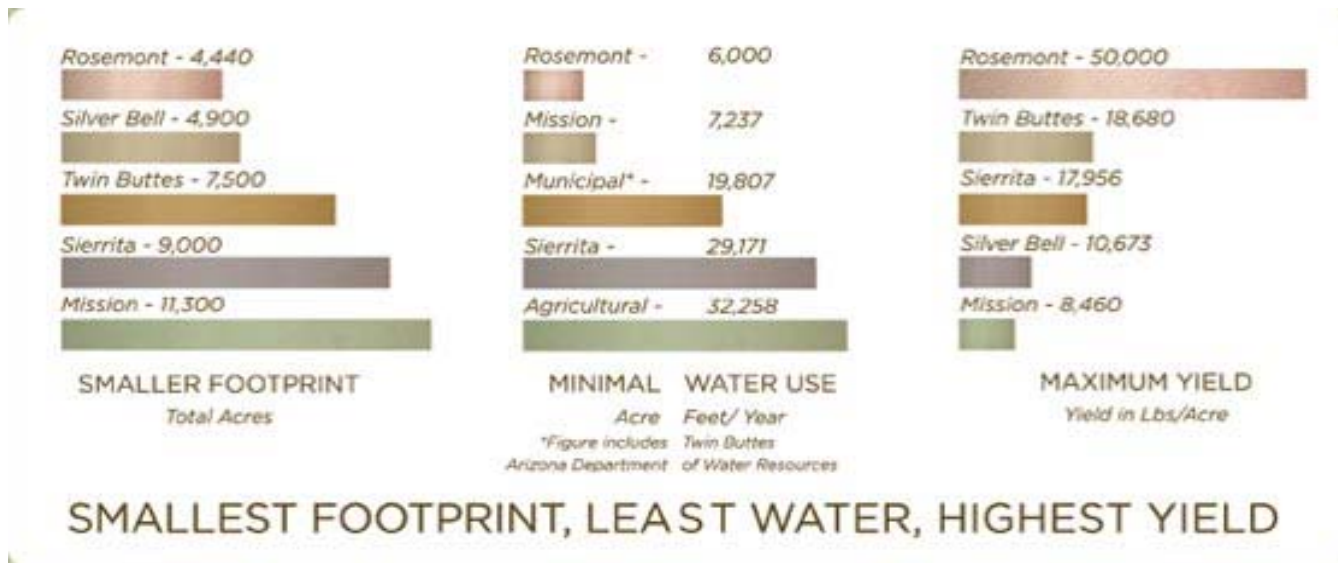
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Filter Press with Surge Tank

Normally Used with Conventional Thickener Technology



Rosemont



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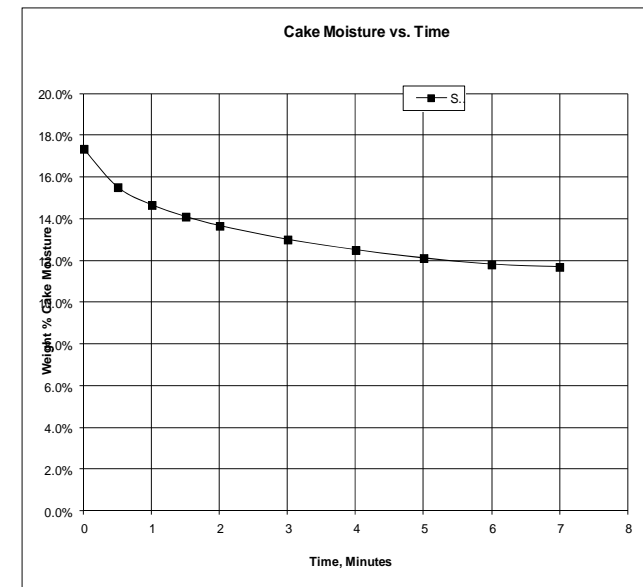
Rosemont Tailings

FILTRATION CYCLE TIMES (Minutes)

Fill Empty Filter	0.57
Filtration to Solids Consolidation	3.07
Wash Solids	0.00
Cake Blow	4.00
Core Wash/Blow	0.50
Shake Cloth	0.50
Filter Cloth Wash & Purge	0.50
Open & Close Filter	1.50
Total Cycle Time	10.64

- ~ 8,500 tpd / filter
- ~ 350 tph / filter
- ~ 16 wt% cake moisture

P80 127 microns



M2020 in Operation



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Copper Tailings Filtration Scenarios (Data From Testing)

Type	Combined Fine and Coarse	Fine
Solid Sg	2.73	2.73
Feed Wt% Solids	50	50
P80 μ m	204	30.5
Mtph	10570	5913
Cake Moisture Wt %	18.5	25.9
Cake Thickness mm	32	32
Filter Type	Recessed Chamber	Recessed Chamber
Total Cycle Time (min)	9.4	10.63
Filtration Rate kgh/m ² (lb/h/ft ²)	183 (38)	146 (30)
Terminal Feed Pressure kg/cm ² (psi)	9 (140)	9 (140)
Filter Size (ea) M2020 – Ch Qty/M ² /M ³	152/1018/19	152/1018/19
Qty Filter Required	57	40

Filter Press

Mongolian Copper Mine

- M1500 – 77 Chambers
- Copper Concentrate
- Slurry Sg: 1.86
- Cake Dryness: 8-9 wt%
- Through put: 1200 mtpd
- Availability: >90%
- Cycles Operated: >100,000



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FLSmidth Automatic Filter Installation



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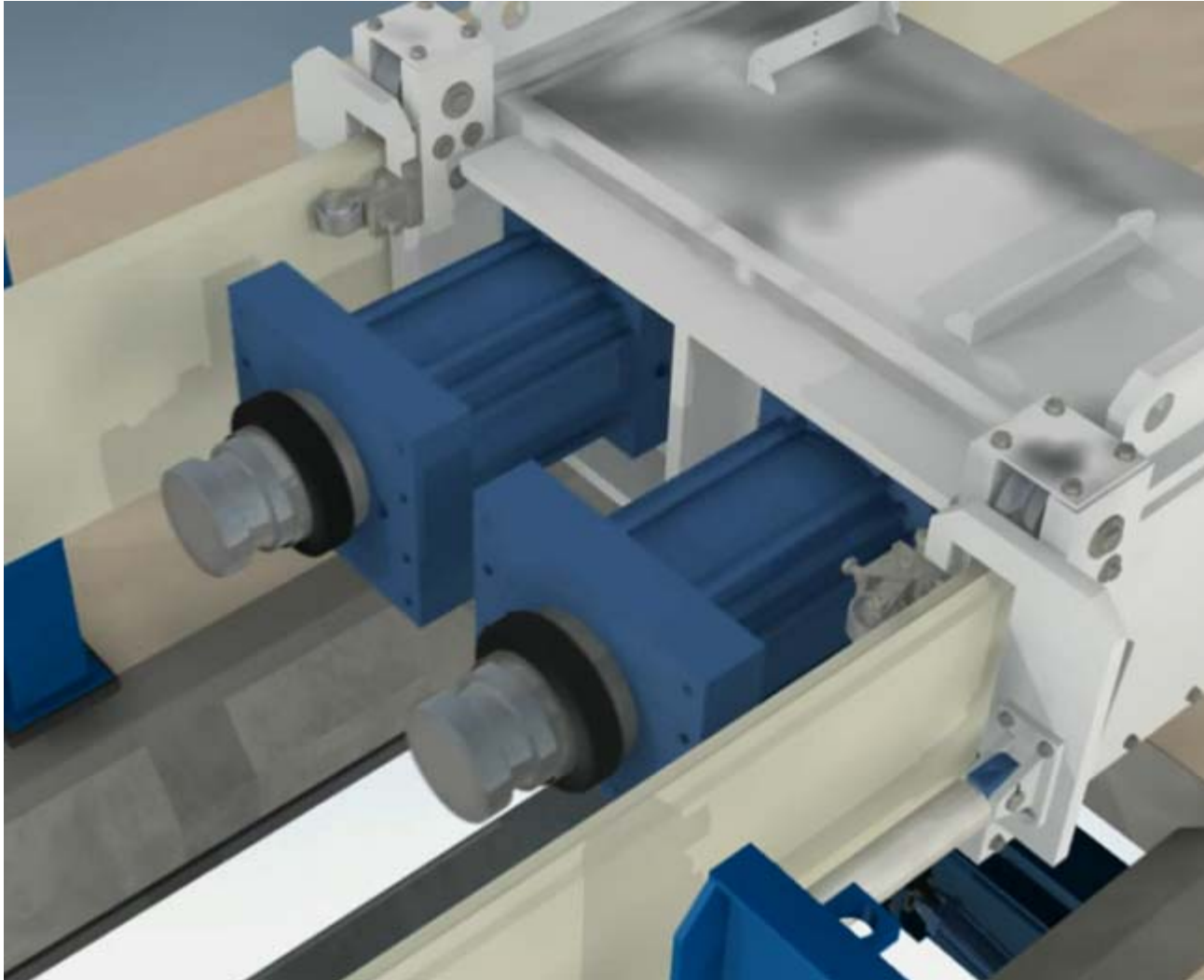
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FLSmidth Automatic Filter Installation



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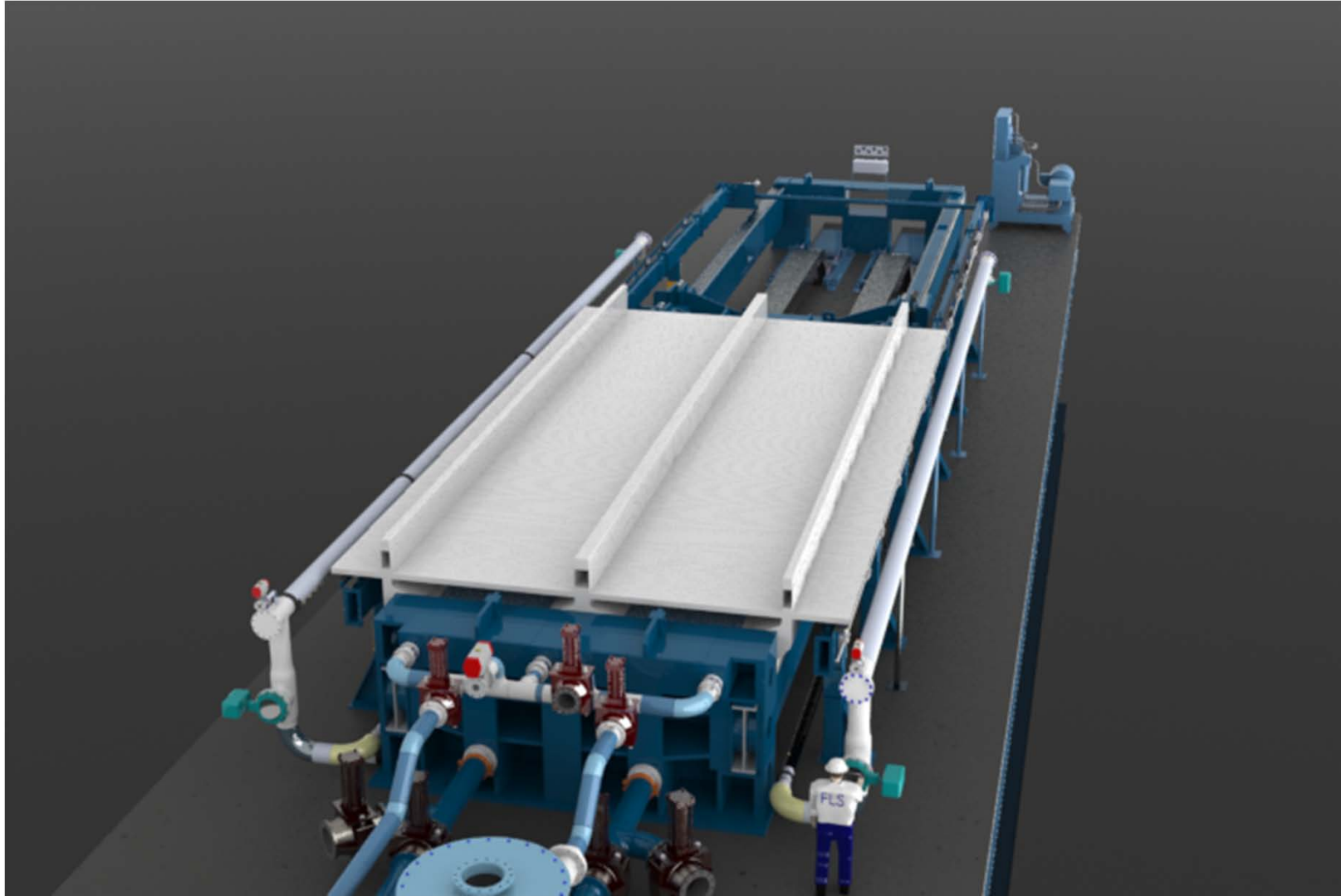
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Operating Costs

Copper Tailings				
COST ANALYSIS OUTPUT			COST ANALYSIS INPUT DATA	
\$/MT	%	Cost Items		
			12	Number of filters
			120	Chambers per filter
			238	Cycles per day per filter
			365	Operation (Days/Year)
\$ 0.001	0.8%	Feed pump repairs	106437	Dry solids production rate (MTPD)
\$ 0.000	0.1%	Compressor repairs first year	0.0%	Addition capacity (% of Design)
\$ 0.000	0.2%	Hydraulic system	50.00	Operator labor rate (\$/Hr)
\$ 0.000	0.2%	Cloth wash system	0.025	Operators per shift
\$ 0.001	0.5%	Filter plates @ 2%/yr	50.00	Maintenance labor rate (\$/Hr)
\$ -	0.0%	Body plates @ 2%/yr	0.010	Maintenance men per shift (different trades)
\$ -	0.0%	Membranes @ 10%/yr	0.080	Power cost (\$/kW-Hr)
\$ 0.000	0.2%	Filter Spare Parts	0.8	Energy consumption (kW-Hr/MT)
\$ 0.013	6.5%	Valves (15000 cycle life)	0.04	Water cost (\$/M ³)
\$ 0.001	0.5%	Instrumentation	0.4	Dewatering time (Minutes)
\$ 0.002	1.0%	Rebuild Shaker every 3 years	0.6	Compressed air rate (SCFM/FT ²)
\$ 0.000	0.2%	Piping repairs from erosion	2228	Compressed air consumed (SCF/Cycle/Filter)
\$ 0.001	0.7%	Maintenance labor	2	Compressed air consumed (M3/MT/filter)
\$ 0.000	0.1%	Operating labor	8668	Water consumption (GPM)
\$ 0.060	31.2%	Electric Power	1968.5	Water consumption (M ³ /Hr)
\$ 0.018	9.2%	Water	5.30	Water consumption (M ³ /MT)
\$ 0.094	48.6%	Filter cloth @ 3000 cycle life	75	Filter cloth price, per chamber (\$)
\$ -	0.0%	Depreciation - Straight Line	15	Filter cloth change time (Minutes)
\$ 0.194		TOTAL	1260	Filter plate with cloth support price (\$)
			0	Membrane Body plate with cloth support price (\$)
			0	Replaceable Membrane price (\$)
				Capital investment (\$)
			20	Depreciation period (years)
				Salvage Value (\$)
			7	Valves Per Filter



Patent Pending Colossal AFP

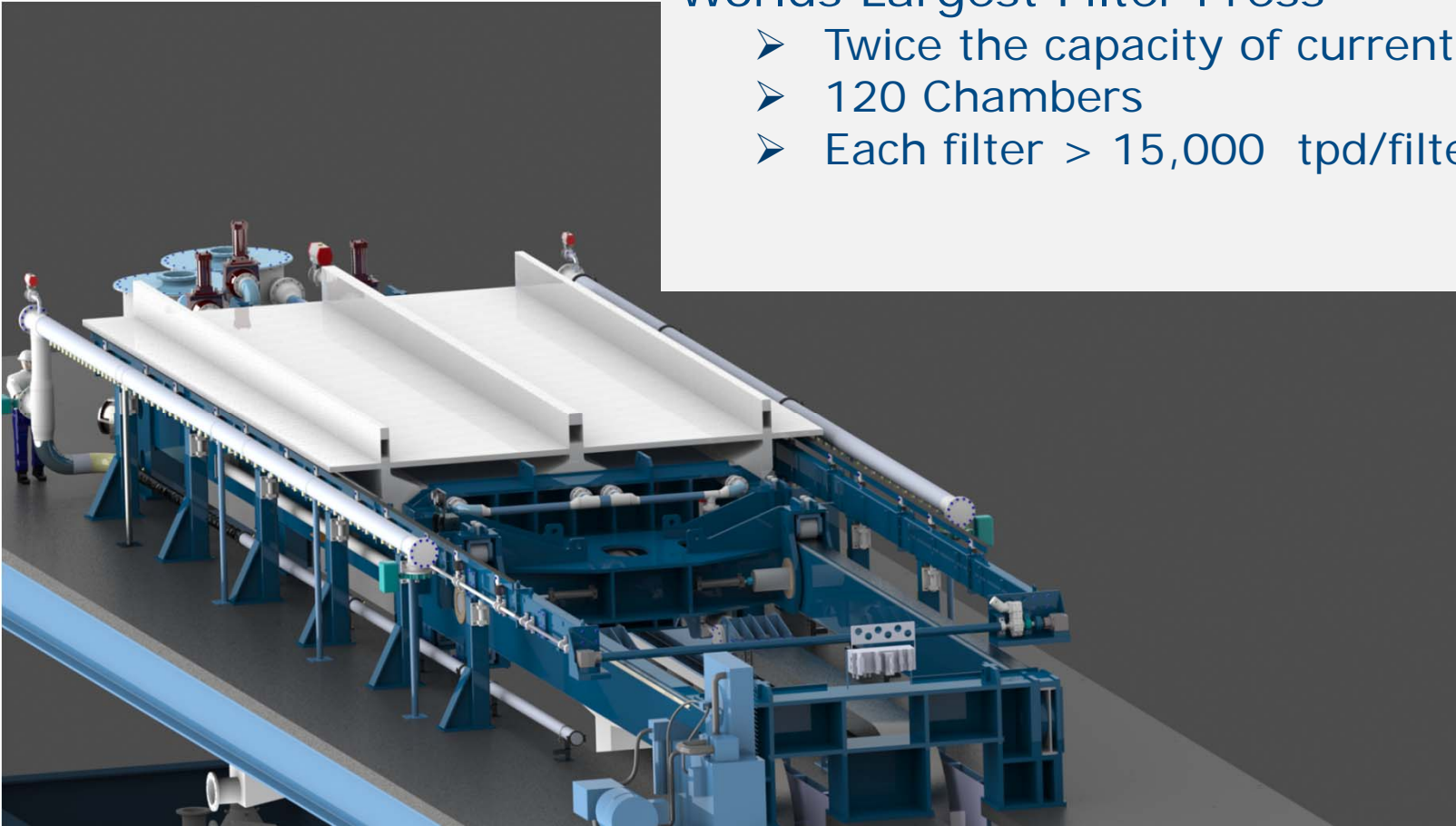


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Copper Tailings Filtration

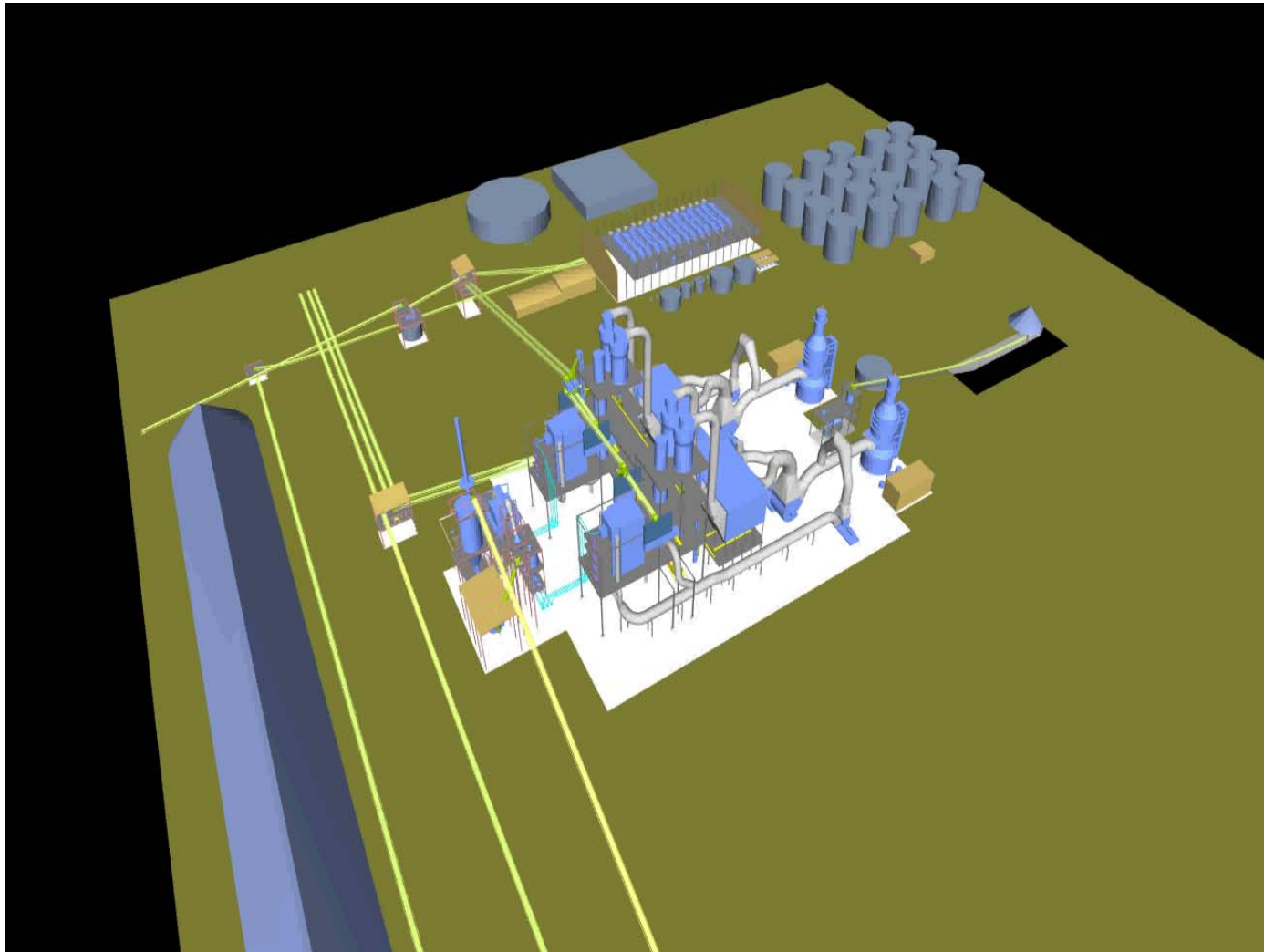
Worlds Largest Filter Press

- Twice the capacity of current filters
- 120 Chambers
- Each filter > 15,000 tpd/filter



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FLS Dewatering Plant

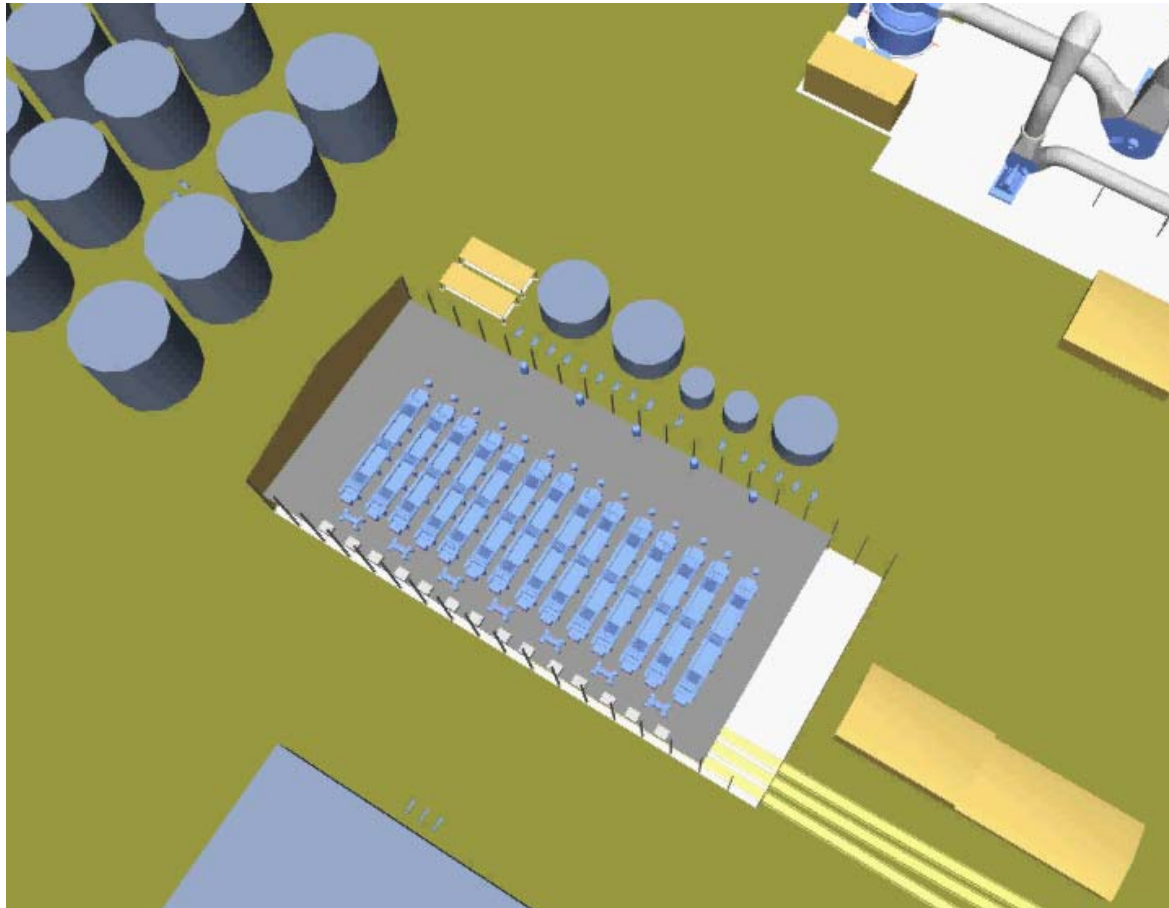


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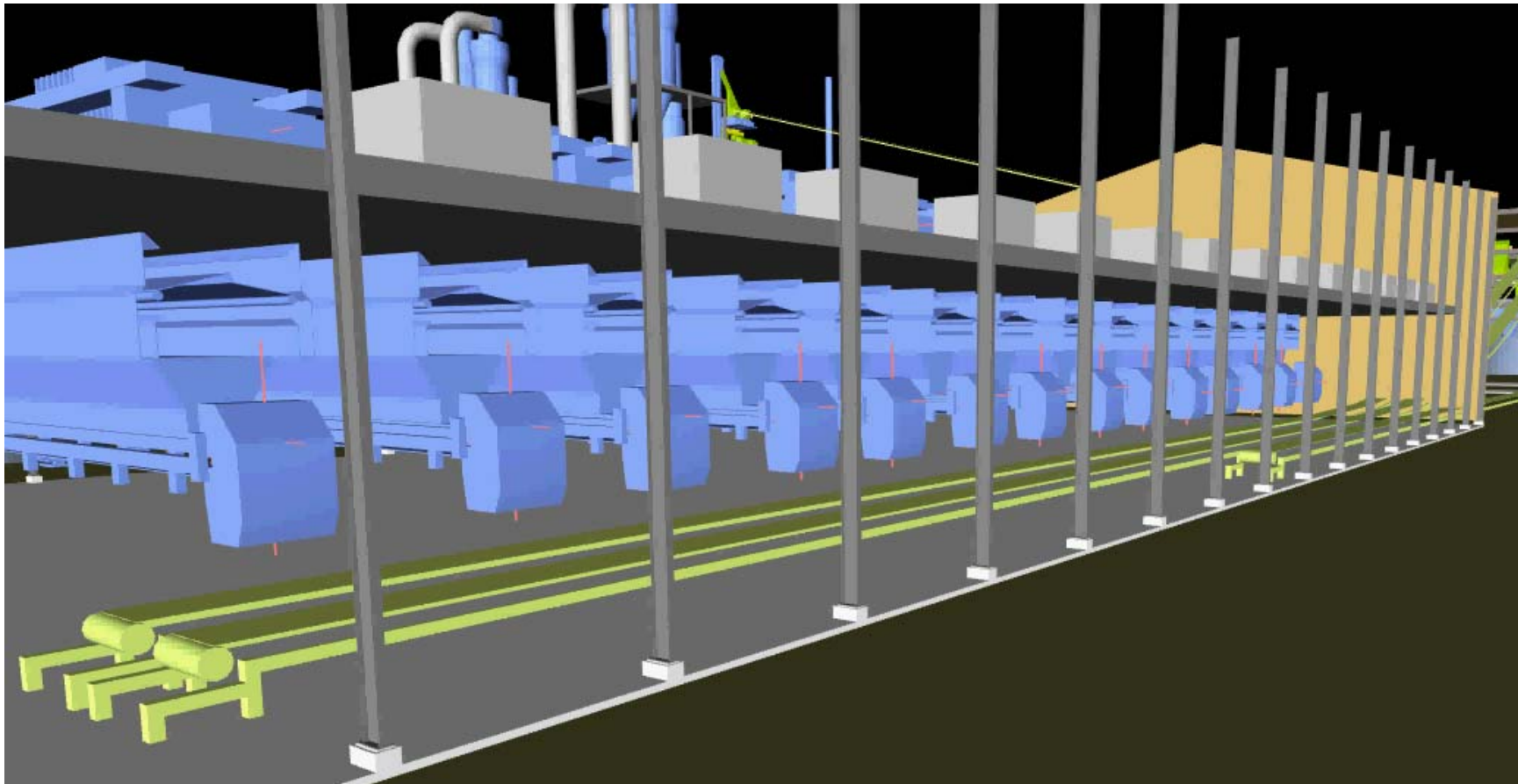
FLSmidth Plant Layout

Fourteen (14) Automatic Pressure Filters
Total Filter Area 12,000 Sq M



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FLS Plant Layout w/14 Pressure Filters Filter Cake Collection System



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Summary

FLS Filter Press Advantages:

- Largest Filter on the Market
- Lower Feed Eye = High Equipment Availability
- Heavy-duty = Less Down Time
- No diaphragms = Less maintenance
 - Inexpensive filter plates
- Short Cycles = High Throughput Per Area
 - Reduced number of filters
 - Low installed cost
- Low Cost sourcing available

Summary

Filtered Tailings Advantages:

- Maximum Water Recovery
- Minimum Fresh Water Needed
- Lowest Environmental Impact
- Co-current Land Reclamation
- Lowest Risk Profile
- Competitive Life Cycle Costs



FLSmidth Conveyor-Based Dry Tailings Stacking

Ted Wagner

Global Product Manager – Mobile Conveying



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