KIF Gypsum Disposal - Responsibilities Matrix - May 11, 2007

	Engineering		Operate &
Description	Design	Construction	Maintain
Gypsum Slurry Pipeline		41.00 15.00 15.00 15.00	
From Powerhouse to Bypass		1	
Valve	Advatech	Advatech	TVA-Plant
From Bypass Valve to		l	
Dewatering Facility From Bypass Valve to Gypsum	Gyp Marketer	Gyp Marketer	Gyp Marketer
	A sh sata ab	8 -t	T/A Diama
Pond (Wet Sluicing) By-Pass Valve	Advatech Advatech/Gyp Marketer	Advatech Advatech/Gyp Marketer	TVA-Plant TVA-Plant
by-rass valve	Advatech/Gyp Marketer	Advatech/Gyp Marketer	Gyp Marketer (Highly
By-Pass Valve Controls (Note 4)	Gun Marketer	Advatech	
by-rass valve Controls (Note 4)	Gyp Marketer	Advatech	Coordinated with TVA)
Gypsum Dewatering Facility	H. Gallerian		
Gypsum Dewatering Facility	Gyp Marketer	Gyp Marketer	Cum Markotor
Rough (initial) Grading of the	TVA-FES (with input	Cayp Iviainetel	Gyp Marketer
Area	from Marketer)	HED	N/A
Site Development of Gyp	II OIII WILLINGTOI J	1	[IWE]
Dewatering Facility (Final	-		
Grading, Drainage, Roads &	·		
Parking within the Gyp Marketer			
area)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Stormwater Pipeline from	ayp markowi	ayp warkotor	Cyp Markotol
Dewatering Facility to Gypsum			
Pond	Gyp Marketer	Gyp Marketer	Gyp Marketer
Filtrate Pipeline from	ayp mamotor	ayp markotor	ayp markotor
Dewatering Facility Back to			
Effluent Lines	Gyp Marketer	Gyp Marketer	Gyp Marketer
Dry Gypsum Stockout (Pole			
Barn)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Conveyor to Barge Loader	Gyp Marketer	Gyp Marketer	Gyp Marketer
Potable Water Supply (Note 1)	Gyp Marketer/TVA	Gyp Marketer/TVA	Gyp Marketer
Raw Water (Note 1)	Gyp Marketer/TVA	Gyp Marketer/TVA	Gyp Marketer
	Advatech (with power	Cyp Markotor 1 VgV	Gyp Markotor
Power Supply to Gypsum	requirement from		
Dewatering Facility (Note 2)	Marketer)	Advatech	TVA-Plant
Marketer Transformer (Provide		7 ta valoon	1177710011
Oil Containment)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Sewage/Septic (Note 3)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Access Road to Gyp	TVA(use existing as	HED(use existing as	
Dewatering Facility	much as practicable)	much as practicable)	TVA-Plant
Fence/Gate (Optional-May Be			
Req'd at a later date)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Transport (Hauling) from Dry			Gyp Marketer haul to
Gypsum Stockout (Pole Barn)	m/-	<i>!-</i> -	barge loader or gyp
(Emergency Only)	n/a	n/a	pond (emergency short
			term)
Permitting - (Note 6)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Fire Protection	TBD	TBD	TBD
Security/Access/Badging of			
Marketer (across plant property)	KIF	KIF	KIF
Develop Dock for Gyp Barges	Gyp Marketer	Gyp Marketer	Gyp Marketer
Truck Route thru plant	TVA	TVA	TVA

KIF Gypsum Disposal - Responsibilities Matrix - May 11, 2007

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ed to divert
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- Note 1 TVA & Gyp Marketer to negotiate most practical approach to providing these utilities.
- Note 2 Pending Harriman Utility Board Agreement on metering
- Note 3 Septic System If permitted by State
- Note 4 Marketer may be required to provide instrument air & control power
- Note 5 TVA to provide capacity in sediment pond for stormwater from marketers area
- Note 6 With the exception of SWPPP, NPDES, Corps, and 26a permits by TVA

Marketer Electrical Power Requirement: 500 amp, 480 volt, 3-phase power.

May accept higher voltage to their transformer.

KIF Gypsum Disposal - Responsibilities Matrix - Oct 27, 2005

	Engineering		Operate &
Description	Design	Construction	Maintain
Gypsum Slurry Pipeline			
From Powerhouse to Bypass		。	A SECURIOR :
Valve	Advatech	Advatech	TVA-Plant
From Bypass Valve to	Advatecti	Advatecii	I 477-1 ICUIT
Dewatering Facility	Gyp Marketer	Gyp Marketer	Gyp Marketer
From Bypass Valve to Gypsum	dyp warketer	dyp Marketer	Gyp Warketer
Pond (Wet Sluicing)	Advatech	Advatech	TVA-Plant
By-Pass Valve	Advatech	Advatech	TVA-Plant
by-rass vaive	Advatech	Advatech	
			TVA(Highly
Du Basa Valus Commula (Nata A)	.	L. L. J. J.	Coordinated with Gyp
By-Pass Valve Controls (Note 4)	Advatech	Advatech	Marketer)
Gypsum Dewatering Facility			
Gypsum Dewatering Facility	Gyp Marketer	Gyp Marketer	Gyp Marketer
Rough (initial) Grading of the	TVA-FES (with input		
Area	from Marketer)	HED	N/A
Site Development of Gyp			
Dewatering Facility (Final			
Grading, Drainage, Roads &			
Parking within the Gyp Marketer			
area)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Stormwater Pipeline from			
Dewatering Facility to Gypsum			
Pond	Gyp Marketer	Gyp Marketer	Gyp Marketer
Filtrate Pipeline from			
Dewatering Facility to Gypsum			
Pond	Gyp Marketer	Gyp Marketer	Gyp Marketer
Dry Gypsum Stockout (Pole	a jpa.r.to.c.	Cyp Marketo.	Cyp (to Control Contro
Barn)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Conveyor to Barge Loader	Gyp Marketer	Gyp Marketer	Gyp Marketer
Potable Water Supply (Note 1)	Gyp Marketer		Gyp Marketer
Raw Water (Note 1)		Gyp Marketer	
naw water (Note 1)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Darran Crimmbrita Crimarina	Advatech (with power	_	
Power Supply to Gypsum	requirement from		T/A Dis
Dewatering Facility (Note 2)	Marketer)	Advatech	TVA-Plant
Marketer Transformer (Provide	la	la	
Oil Containment)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Sewage/Septic (Note 3)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Access Road to Gyp	TVA(use existing as	HED(use existing as	<u></u>
Dewatering Facility	much as practicable)	much as practicable)	TVA-Plant
Fence/Gate (Optional-May Be		L	 .
Req'd at a later date)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Transport (Hauling) from Dry			Gyp Marketer haul to
Gypsum Stockout (Pole Barn)	n/a	l n/a	barge loader or gyp
(Emergency Only)	1.704		pond (emergency short
·			term)
Permitting - (Note 6)	Gyp Marketer	Gyp Marketer	Gyp Marketer
Fire Protection	TBD	TBD	TBD
Security/Access/Badging of			
			I
Marketer (across plant property)	KIF	KIF	KIF

KIF Gypsum Disposal - Responsibilities Matrix - Oct 27, 2005

	Engineering		Operate &
Description	Design	Construction	Maintain
Truck Route thru plant	TVA	TVA	TVA
Scenario 1 Gypsum Disposal			
Area (Expected Operation)			
Gypsum Disposal Area	TVA - FES	HED	TBD
Stormwater (Surge) Pond	TVA - FES	HED	Yard Ops
Cleanout of Stormwater/SED			Tara Opo
Pond (as needed)	n/a	n/a	Yard Ops
Donal from Douglasian Foolit.			
Road from Dewatering Facility	TVA EEC	LUED	TOD
to Gypsum Pond/Disposal Area Pumps/Pipe from	I VA - FED	HED	TBD
Stormwater/Sed Pond to Plant			
Discharge Channel	TVA - FES	HED	Yard Ops
Power Feed to Pumps (Sed	Advatech (given the	וחבט	Taru Ops
Pond(s))	power load from FES)	Advatech	Yard Ops
Scenario 2 Gypsum Disposal	Ipower load Holli (ES)	IVOATACII	Traid Ops
Area (Market Failure) Drying			
System is By-Passed or not			
built			No.
Gypsum Disposal Area	TVA - FES	HED	Yard Ops
Stormwater (Surge) Pond	TVA - FES	HED	Yard Ops
Cleanout of Stormwater/SED			
Pond (as needed)	n/a	n/a	Yard Ops
Road from Dewatering Facility			
to Gypsum Pond/Disposal Area	TVA - FES	HED	Yard Ops
Pumps/Pipe from	I TA-I LO	11120	Taid Opa
Stormwater/Sed Pond to Plant			
Discharge Channel	TVA - FES	HED	Yard Ops
Power Feed to Pumps (Sed	Advatech (given the	S a new law	1 4 4 4 4
Pond(s))	power load from FES)	Advatech	Yard Ops
Dinalina From Danasa Value			
Pipeline From Bypass Valve to	A .t	1	
Gypsum Pond (Wet Sluicing)	Advatech	Advatech	TVA
By Book Valvo	Advatash	A ab and a ab	TVA - Locked to divert
By-Pass Valve	Advatech	Advatech	to Disposal Facility
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Marketer Electrical Power Requirement: 500 amp, 480 volt, 3-phase power.

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