

INDUSTRY SESSION LOCKS AND DAMS

Presentation for the
Mississippi Managers Meeting

Jim Rand, LD Ops Manager

05 Feb 2020



US Army Corps
of Engineers®

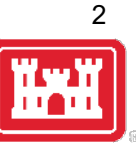


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TOWBOAT ALLISIONS WITH LOCK STRUCTURES



- 16 total, 11 down bound / 5 up bound.
 - Does not include vessel contact with LD 7 weir.
- Spring: 2 - (Mar thru Jun)
- Summer: 6 - (Jul thru Aug)
- Fall: 8 - (Sep thru Nov)
- Majority were timber damage.
- Most severe, LD 4 bullnose.
- Historical:
 - 2018 – 4, 2 down bound / 2 up bound.
 - 2017 – 7, 6 down bound / 1 up bound.
 - 2016 – 14, 9 down bound / 5 up bound.
 - 2015 - 9, 8 down bound / 1 up bound.



LD 4 I-wall US bullnose





DEFERRED LD MAINTENANCE



FY 20: Funding priority within Division is IWW consolidated lock closure.

- LaGrange, Peoria, Starved Rock: Closure July 1 – Sept 30
- Marseilles and Dresden: Closure July 1 – Oct 29.
- Reduce negative economic impact as much as possible.
- St Paul / St Louis will provide additional bulkheads.

FY 21-24 budget submission priority:

- LD 4 & 2 Dewater
- MG Anchorage replacement: LD 8, 5A, 10
- MG Anchorage + MG replacement: LD 6
- Aux sheet pile closure: LD 9, 10, 8, 6, 4, 3
- Tainter Valve Replacement: LD 2, 8



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- [illegible]

0520414	J. N. PHILIPS	UpBound	07/17/2019 20:29	07/17/2019 22:10	12	MI	02	LOCK AND DAM 2	815.2
0522413	SIERRA DAWN	DownBound	07/18/2019 06:05	07/18/2019 06:36	0	MI	03	LOCK AND DAM 3	796.9
0562078	JOHN D. NUGENT	UpBound	07/18/2019 05:58	07/18/2019 08:08	0	MI	08	LOCK AND DAM 8	679.2
0564321	RILEY ELIZABETH	UpBound	07/17/2019 21:10	07/17/2019 23:59	2	MI	02	LOCK AND DAM 2	815.2
0569751	CAPT. BOWE	UpBound	07/18/2019 06:00	07/18/2019 06:38	0	MI	07	LOCK AND DAM 7	702.5
0576108	BRAD BENNINK	UpBound	07/17/2019 19:45	07/17/2019 20:25	5	MI	02	LOCK AND DAM 2	815.2
0577609	COOPERATIVE VENTURE	DownBound	07/18/2019 10:50	07/18/2019 11:18	2	MI	04	LOCK AND DAM 4	752.8
0577912	CAPT. JOHN REYNOLDS	DownBound	07/18/2019 12:33	07/18/2019 13:33	2	MI	10	LOCK AND DAM 10	615.1
0611088	WHITE ANGEL	UpBound	07/18/2019 01:30	07/18/2019 01:49	0	MI	55	LOCK AND DAM 5A	728.5
0614064	CLIFFORD H. GALLEY	DownBound	07/18/2019 06:17	07/18/2019 07:00	0	MI	06	LOCK AND DAM 6	714.3
0616455	LEE ANN INGRAM	UpBound	07/18/2019 02:40	07/18/2019 07:51	12	MI	04	LOCK AND DAM 4	752.8
0645834	JAMES F NEAL	DownBound	07/18/2019 07:20	07/18/2019 10:00	0	MI	08	LOCK AND DAM 8	679.2
0647184	PHILIP M. PFEFFER	UpBound	07/18/2019 10:00	-	12	MI	06	LOCK AND DAM 6	714.3

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ICE LOCKAGE PROCEDURES

5



- Locking procedures in place to deal with ice.
- Challenge in late fall open river conditions, no head differential to flush ice.
- Rake to box couplings.
- Industry concerns?



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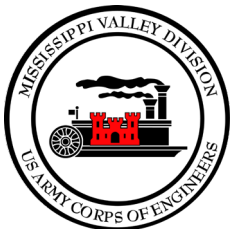


SAFE HARBOR DURING HIGH WATER / WEATHER

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LD 8 – Photo by Doug Blexrud



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QUESTIONS?



LD 4 – Boat rescue training with local responders.



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