MEMORANDUM FOR CEMVS-OD-N

SUBJECT: Melvin Price Locks and Dam, M/V Kevin Michael Incident of 19 March 2021, Report of Damage to Dam Tainter Gates

- At the request of CEMVS-OD-N, on 22 March 2021, Kyle Arentsen, Jeff Dinkelmann, and Robert Kelsey conducted an inspection of Tainter Gate #4, Tainter Gate #5, and Tainter Gate #7 from a manbasket. From the preliminary inspection from the manbasket, it was determined that a hands-on inspection was necessary to determine the full extent of the damage from the subject incident. On 23 March 2021, Kyle Arentsen and Robert Kelsey conducted an inspection of the Tainter Gates #2, #4, #5, #7, and #9 from a deck barge. Other personnel present for the inspection included Jim Adden, Central Area Navigation Manager, and Kyle Wiseman, Facility and Safety Specialist.
- 2. At the time of the subject incident the project was at open river with all Tainter gates out of the water; the river elevation upstream was Elevation 419.4, while the river elevation downstream was Elevation 418.3. The subject M/V was downbound and impacted the main lock upstream guidewall bullnose at approximately 1140 on 19 March 2021. Upon impact with the bullnose, the tow broke apart allowing the barges to careen towards the dam gates. Tainter Gate #2, #4, #5, #7, and #9 were impacted by the loose barges from the subject incident. The tow consisted of an assortment of loaded and empty barges, 15 in total.
- 3. No appreciable damage to Tainter Gate #2 and Tainter Gate #9 was observed from the subject incident.
- 4. Observed damage consists of the following.
 - a. <u>Tainter Gate #4.</u> The wire rope connection assembly on the Illinois side of the gate was impacted. There is one missing keeper plate and minor gouges in the inboard cable connection bracket end plate (Photo 1). The impact sheared off the keeper plate bolts that are threaded into the cable socket. The nut and washer shim plate above inboard cable socket fractured approximately in half leaving the outboard side of the shim plate (Photo 2). Due to the missing portion of the nut and washer shim plate, the inboard wire rope is considered ineffective. The adjacent cable socket has a missing keeper plate bolt.
 - b. <u>Tainter Gate #5.</u> The impact caused a perforation and deformation of the skin plate assembly at the bottom edge of the gate (Figure 1, Photo 3 and Photo 6); the skin plate assembly at the bottom edge of the gate consists of the 1/2" skin plate, 1 3/8" bottom plate, and 1" vertical plate (Figure 2). The start of the deformation in the skin plate assembly is located approximately 28' from the Missouri end of the gate. The deformation in the skin plate assembly is over an

area of 4-6" high x approximately 20'-0" wide. The bottom of the gate is deformed at the bottom edge, approximately 6" downstream at its maximum point. In this 20'-0" wide area, the vertical ribs (WT12x31) are severely deformed (Photo 4). At a minimum, nine vertical ribs will require replacement. The 1" vertical plate on the skin plate assembly has completely fractured near the maximum deformation in the skin plate (Photo 5). Some of the 1/2" horizontal plates welded above the pockets formed by the skin plate assembly and the vertical ribs are deformed in the area from the incident.

- c. <u>Tainter Gate #7.</u> The impact caused two deformations in the skin plate upstream of the bottom girder flange (Photo 7 and 8). The deformations are approximately 1" deep by 12" wide. Slight gouges were noted on the bottom edge of the gate that resulted from the incident (Photo 9). Repairs to these areas will not be necessary.
- 5. <u>Recommended Operating Restrictions</u>. Following the initial inspection and discussion with OD personnel, it was concluded that it is safe to operate the Tainter gates in their current condition for normal operations until repairs can be performed. Since the bottom of the gate is damaged, flow under the gate may be upset and cause vibrations at low opening or complete gate closure settings. Operators should be advised to listen for vibrations and make slight adjustments that may alleviate such vibrations. EC-DS should be notified if gate vibrations are detected when the gates are put back in service.

6. <u>Recommended Repairs</u>.

- a. Tainter Gate #4. Replacement of the missing keeper plate, socket shims and missing keeper plate bolt should be completed as soon as reasonably possible. Work is required to be performed in a dewatered Tainter gate bay in order to disassemble the cable socket connection to install the new shims and properly tension the wire ropes. Due to galling of existing stainless steel items on the wire rope connection assemblies, individual items in the connection assembly may require replacement after disassembly.
- b. Tainter Gate #5. Repairs to Tainter Gate #5 are required to ensure long term reliability of the gate and should be completed as soon as reasonably possible.
 - <u>Skin Plate Assembly.</u> The deformed 1/2" skin plate, 1-3/8" bottom plate, and 1" vertical plate should be removed and replaced over the approximate width of the damaged area noted in paragraph 4.b. In order to facilitate the welding of the top skin plate splice, it is recommended that the skin plate demolition line be the horizontal skin plate splice located directly above bottom girder flange (i.e. 7'-8" above the bottom of the gate). The replacement sections of the 1/2" skin plate and 1-3/8" bottom plate should be installed with complete joint penetration welds, ground flush and smooth, and have ultrasonic testing performed. The 1" vertical plate shall be installed with complete joint penetration welds between the replacement plate and original plate. All other welding for the skin plate assembly shall be in accordance with the as-builts. The

material for the existing 1-3/8" plate is ASTM A514; the replacement 1-3/8" plate should match the existing material.

- ii. <u>Vertical Ribs.</u> The deformed vertical ribs should be removed and replaced. In order to facilitate the welding of the top splice between the replacement vertical ribs and original vertical ribs, it is recommended that the vertical rib demolition line be located at the horizontal skin plate splice located directly above the bottom girder flange (i.e. 7'-8" above the bottom of the gate). The replacement vertical ribs shall be installed with complete joint penetration welds at the top. All other welding of the vertical ribs to the gate shall be in accordance with the as-builts. The 1/2" plates located between the stems of the vertical ribs shall also be removed and replaced; the welding of the replacement 1/2" plate shall be in accordance with the as-builts.
- iii. <u>Painting</u>. All affected areas repaired shall be painted with the Corps of Engineers Paint System 5-E-Z.
- 7. <u>Cost Estimate for Repairs</u>. EC-DS will work with OD-N to develop a cost estimate for these repairs.

Kyle Arentsen, PE, CWI Structural Engineer CEMVS-EC-DS



Figure 1 – Gate 5 Upstream Elevation, Missouri Side of Gate (shaded area indicates location of skin plate assembly damage)



Figure 2 - Typical Skin Plate Assembly at Bottom Edge of Tainter Gate



Photo 1 – Tainter Gate #4 – Illinois Wire Rope Connection . (Arrows indicate missing keeper plate and localized gouges in end plate, missing keeper plate bolt, and missing portion of nut and washer shim)



Photo 2 – Tainter Gate #4 - Zoomed in View of Fractured Nut and Washer Shim Plate on Inboard Cable Socket (Arrow indicates remaining portion of shim plate)



Photo 3- Tainter Gate #5 - Perforated Skin Plate



Photo 4 – Tainter Gate #5 – Deformed Vertical Ribs



Photo 5 – Tainter Gate #5 – Fracture of 1" Steel Plate



Photo 6 – Tainter Gate #5 – Approximate 6" Deformation in Bottom Portion of Skin Plate



Photo 7 – Tainter Gate #7 – Deformations in Skin Plate



Photo 8 – Tainter Gate #7 - Deformation in Skin Plate (view on downstream side of skin plate between vertical ribs)



Photo 9 – Tainter Gate #7 – Gouge in Bottom Edge of Skin Plate

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62 FORKLIFT (Min 5,000b Capacity) 360 HR 5222.83 \$80,218.80 105 TOWABLE GENERATOR (500KW) 30 DY \$1.814.26 \$54,427.80 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$250,000.00 \$250,000.00 20 FLOATING PLANT W/400 TN CRANE STANDBY 7 DY \$7,956.75 \$55,697.25 18 FLOATING PLANT W/400 TN CRANE 12 HOUR DURATION 14 EA \$30,003.825 \$420,535.60 16 FLOATING PLANT W/400 TN CRANE MOBILIZATION & DEMOBILIZATION (TBD) 14 TBD \$30,000.00 \$30,000.00 129 FOUR (4) MAN DIVE TEAM WITH FLOATING PLANT - 12 HOUR OPERATION 2 DY \$9,637.85 \$19,275.70 57 8.5 TN CARRY DECK CRANE (Min 30FL Reach) 134 HR \$864.44 \$115,834.96 109 RENTAL OF MISC. EQUIPMENT (TBD) 12 HR \$124.99 \$1,499.88 124 CARPENTER CARPENTER S50,000.00 \$50,000.00 \$50,000.00 544 CARPENTER CARPENTER S604 HR \$113		FLOATING PL	ANT WITH MATI	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIC	N 2	EA TBD		\$2,652.25 \$11,990.92 \$60,000.00	\$74,263.00 \$23,981.84 \$60,000.00
62 FORKLIFT (Min 5,000ib Capacity) 360 HR \$222.83 \$80,218.80 105 TOWABLE GENERATOR (500KW) 30 DY \$1,814.26 \$54,427.80 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$250,000.00 \$250,000.00 20 FLOATING PLANT W/400 TN CRANE STANDBY 7 DY \$7,956.75 \$55,697.25 18 FLOATING PLANT W/400 TN CRANE STANDBY 14 EA \$30,038.25 \$420,535.50 19 FLOATING PLANT W/400 TN CRANE MOBILIZATION & DEMOBILIZATION (TBD) 14 EA \$30,030.00 \$30,000.00 190 FLOATING PLANT W/400 TN CRANE MOBILIZATION & DEMOBILIZATION (TBD) 1 TBD \$30,000.00 \$30,000.00 191 FOUR (4) MAN DIVE TEAM WITH FLOATING PLANT - 12 HOUR OPERATION 2 DY \$9,637.85 \$19,275.70 103 RENTAL OF MISC. EQUIPMENT (TBD) 13 TBD \$50,000.00 \$50,000.00 104 OPERATOR - GROUP 2 - STRAIGHT TIME 14 BA \$113.39 \$57,148.50 124 CARPENTER Master Ship Agent Master Sh	62	FLOATING PL FLOATING PL FORKLIFT (Mi	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIC CRANE MOBILIZATION & DEMOBILIZATION (TBD) Iy)	N 2 1 360	DY EA TBD HR		\$2,652.25 \$11,990.92 \$60,000.00 \$222.83	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80
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109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$250,000.00 20 FLOATING PLANT W400 TN CRANE STANDBY 7 DY \$7,956.75 \$55,697.25 18 FLOATING PLANT W400 TN CRANE 12 HOUR DURATION 14 EA \$30,038.25 \$420,535.50 16 FLOATING PLANT W400 TN CRANE 12 HOUR DURATION 14 EA \$30,038.25 \$420,535.50 16 FLOATING PLANT W400 TN CRANE MOBILIZATION & DEMOBILIZATION (TBD) 1 TBD \$30,000.00 \$30,000.00 129 FOUR (4) MAN DIVE TEAM WITH FLOATING PLANT - 12 HOUR OPERATION 2 DY \$9,637.85 \$19,275.70 57 8.5 TN CARRY DECK CRANE (Min 30FI Reach) 134 HR \$864.44 \$115,834.96 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$50,000.00 \$50,000.00 64 OPERATOR - GROUP 2 - STRAIGHT TIME 12 HR \$124.99 \$1,499.88 124 CARPENTER Kater Ship Agreements Kater Ship Agreements Kater Ship Agreements Kater Ship Agreements M/V Kevin Michael Allision Repairs	62 62	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci n 5,000lb Capaci	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIC CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y)	N 2 1 360 360	EA TBD HR HR		\$2,652,25 \$11,990,92 \$60,000.00 \$222.83 \$222.83	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80
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Image: Constraint of the state of	62 62 105 109	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF N	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci n 5,000lb Capaci ENERATOR (500 IISC. EQUIPMEN	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIC CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) kW)	N 2 1 360 360 300 1 1	DY EA TBD HR HR DY TBD		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00
18 FLOATING PLANT W/400 TN CRANE 12 HOUR DURATION 14 EA \$30,038.25 \$420,535.50 16 FLOATING PLANT W/400 TN CRANE MOBILIZATION & DEMOBILIZATION (TBD) 1 TBD \$30,000.00 \$30,000.00 129 FOUR (4) MAN DIVE TEAM WITH FLOATING PLANT - 12 HOUR OPERATION 2 DY \$9,637.85 \$19,275.70 57 8,5 TN CARRY DECK CRANE (Min 30Ft Reach) 134 HR \$864.44 \$115,834.96 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$50,000.00 \$50,000.00 64 OPERATOR - GROUP 2 - STRAIGHT TIME 12 HR \$124.99 \$14,499.86 124 CARPENTER Master Ship Agreements S113.39 \$57,148.56 Elite : W/V Kevin Michael Allision Repairs	62 62 105 109 20	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci n 5,000lb Capaci ENERATOR (500 IISC. EQUIPMEN ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIC CRANE MOBILIZATION & DEMOBILIZATION (TBD) by) (y) (y) (w) (T (TBD) CRANE STANDBY	N 2 1 360 360 30 1 7	DY EA TBD HR HR DY TBD DY		\$2,652,25 \$11,990,92 \$60,000.00 \$222.83 \$222.83 \$1,814,26 \$250,000.00 \$7,956.75	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25
Instruction Instruction <thinstruction< th=""> <thinstruction< th=""></thinstruction<></thinstruction<>	62 62 105 109 20	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci n 5,000lb Capaci ENERATOR (500 IISC. EQUIPMEN ANT W/400 TN C	ERIAL BARGE WISPUDS & RAMPS 12 HOUR DURATIC CRANE MOBILIZATION & DEMOBILIZATION (TBD) by) (y) (y) (x) (x) (x) (x) (x) (x) (x) (x) (x) (x	N 2 1 360 360 30 1 7	DY EA TBD HR HR DY TBD DY		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25
16 FLOATING PLANT W/400 TN CRANE MOBILIZATION & DEMOBILIZATION (TBD) 1 TBD \$30,000.00 \$30,000.00 129 FOUR (4) MAN DIVE TEAM WITH FLOATING PLANT - 12 HOUR OPERATION 2 DY \$9,637.85 \$19,275.70 57 8.5 TN CARRY DECK CRANE (Min 30FT Reach) 134 HR \$864.44 \$115,834.96 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$50,000.00 \$50,000.00 64 OPERATOR - GROUP 2 – STRAIGHT TIME 12 HR \$124.99 \$1,499.88 124 CARPENTER Master Ship Agreements Stop of Work Call Order Amo Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2,366.022.83	62 62 105 109 20 18	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 IISC. EQUIPMEN ANT W/400 TN C	ERIAL BARGE WISPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (y) (x) (x) (x) (x) (x) (x) (x) (x) (x) (x	N 2 1 360 360 30 1 7 1 1	DY EA TBD HR HR DY TBD DY EA		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50
POUR (4) MAN DIVE TEAM WITH FLOATING PLANT - 12 HOUR OPERATION 2 DY \$9,637.85 \$19,275.70 57 8.5 TN CARRY DECK CRANE (Min 30Ft Reach) 134 HR \$864.44 \$115,834.96 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$50,000.00 \$50,000.00 64 OPERATOR - GROUP 2 – STRAIGHT TIME 12 HR \$124.99 \$1,499.88 124 CARPENTER 504 HR \$113.39 \$57,148.56 Master Ship Agreements Call Order Amo	62 62 105 109 20 18	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 IISC. EQUIPMEN ANT W/400 TN C	ERIAL BARGE WISPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (w) (x) (x) (T (TBD) (x) (x) (x) (x) (x) (x) (x) (x) (x) (x	N 2 1 360 360 30 1 7 14	DY EA TBD HR HR DY TBD DY EA		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50
123 CONTENTING FLAM THEFT LANDING FLAM FLAM FLAM FLAM FLAM FLAM FLAM FLAM	62 62 105 109 20 18 16	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 IISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE WISPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (w) (w) (w) (w) (w) (w) (w) (w) (w) (w	N 2 1 360 360 30 1 7 14	DY EA TBD HR HR DY TBD DY EA TBD		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,000,00	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00
57 8.5 TN CARRY DECK CRANE (Min 30Ft Reach) 134 HR \$864.44 \$115,834.96 109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$50,000.00 \$50,000.00 64 OPERATOR - GROUP 2 – STRAIGHT TIME 12 HR \$124.99 \$1,499.88 124 CARPENTER 504 HR \$113.39 \$57,148.56 Scope of Work Call Order Amo Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2,366.022.83	62 62 105 109 20 18 16	FLOATING PL FLOATING PL FORKLIFT (Mi FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 HISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (v) (v) (v) (v) (v) (v) (v) (v) (v) (v	N 2 1 360 360 30 1 7 14 14	DY EA TBD HR HR DY TBD DY EA TBD		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,000,00	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00
Mater Mater <th< td=""><td>62 62 105 109 20 18 16 129</td><td>FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL</td><td>ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 IISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C</td><td>ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (y) (xw) (xw) (xt (TBD) (xane standby (xane standby (xane 12 HOUR DURATION (xane Mobilization (TBD) (xane Mobilization x Demobilization (TBD) (xane floating plant - 12 HOUR OPERATION</td><td>N 2 1 360 360 30 1 1 7 14 14 2</td><td>DY EA TBD HR HR DY TBD DY EA TBD DY</td><td></td><td>\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,000,00 \$9,637,85</td><td>\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70</td></th<>	62 62 105 109 20 18 16 129	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 IISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (y) (xw) (xw) (xt (TBD) (xane standby (xane standby (xane 12 HOUR DURATION (xane Mobilization (TBD) (xane Mobilization x Demobilization (TBD) (xane floating plant - 12 HOUR OPERATION	N 2 1 360 360 30 1 1 7 14 14 2	DY EA TBD HR HR DY TBD DY EA TBD DY		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,000,00 \$9,637,85	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70
109 RENTAL OF MISC. EQUIPMENT (TBD) 1 TBD \$\$50,000.00 <t< td=""><td>62 62 105 109 20 18 16 129 57</td><td>FLOATING PL FLOATING PL FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL</td><td>ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 INSC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C INT W/400 TN C INT W/400 TN C</td><td>ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (xw) (xw) (xt (TBD) (xane standby (xane standby (xane 12 HOUR DURATION (xane Mobilization & DEMOBILIZATION (TBD) (xane Mobilization & DEMOBILIZATION (TBD) (xin 30FL Reach)</td><td>N 2 1 360 360 30 1 7 14 1 2 134</td><td>DY EA TBD HR HR DY TBD DY EA TBD DY HR</td><td></td><td>\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44</td><td>\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96</td></t<>	62 62 105 109 20 18 16 129 57	FLOATING PL FLOATING PL FORKLIFT (Mi TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 INSC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C INT W/400 TN C INT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (xw) (xw) (xt (TBD) (xane standby (xane standby (xane 12 HOUR DURATION (xane Mobilization & DEMOBILIZATION (TBD) (xane Mobilization & DEMOBILIZATION (TBD) (xin 30FL Reach)	N 2 1 360 360 30 1 7 14 1 2 134	DY EA TBD HR HR DY TBD DY EA TBD DY HR		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96
64 OPERATOR - GROUP 2 - STRAIGHT TIME 12 HR \$124.99 \$1,499.88 124 CARPENTER 504 HR \$113.39 \$57,148.56 Master Ship Agreements Call Order Amo Scope of Work Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2,366.022.83	62 62 105 109 20 18 16 129 57	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 HISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (xw) (xw) (xt (TBD) CRANE STANDBY CRANE STANDBY CRANE 12 HOUR DURATION CRANE MOBILIZATION & DEMOBILIZATION (TBD) (TH FLOATING PLANT - 12 HOUR OPERATION (Min 30Ft Reach)	N 2 1 360 360 30 1 1 14 1 2 134	DY EA TBD HR HR DY TBD DY EA TBD DY EA TBD DY		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$9,637,85	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96
64 OPERATOR - GROUP 2 – STRAIGHT TIME 12 HR \$124.99 \$1,499.88 124 CARPENTER 504 HR \$113.39 \$57,148.56 Master Ship Agreements Call Order Amo Scope of Work Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2,366.022.83	62 62 105 109 20 18 16 129 57 109	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 HISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO (CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (x) (x) (x) (x) (x) (x) (x) (x	N 2 1 360 360 360 1 360 1 360 1 1 1 1 2 134 1 34	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD		\$2,652.25 \$11,990.92 \$60,000.00 \$222.83 \$1,814.26 \$250,000.00 \$7,956.75 \$30,038.25 \$30,038.25 \$30,038.25 \$30,000.00 \$9,637.85 \$864.44 \$50,000.00	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00
124 CARPENTER 504 HR \$113.39 \$57,148.56 Master Ship Agreements Scope of Work Call Order Amo Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 16 129 57 109	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FOUR (4) MAN 8.5 TN CARRY RENTAL OF M	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 HISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (y) (kW) (kW) (kW) (kW) (kW) (kW) (kT (TBD) (Min 30Ft Reach) (kT (TBD)	N 2 1 360 360 360 1 360 1 30 1 1 1 1 2 134 1 34 1 36	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00
I24 GARPENTER 504 HR \$113.39 \$57,148.56 Master Ship Agreements Scope of Work Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 20 18 16 129 57 57 109 64	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FOUR (4) MAN 8.5 TN CARRY RENTAL OF M OPERATOR -	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 HISC. EQUIPMEN ANT W/400 TN C ANT W/4	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (by) (by) (by) (by) (b) (crane standby (crane standby (crandby	N 2 1 360 360 30 1 7 14 1 2 134 134 1 12 134 12 12	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00 \$124,99	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00 \$14,499.88
Master Ship Agreements Scope of Work Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 16 129 57 57 109 64	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FOUR (4) MAN 8.5 TN CARRY RENTAL OF M OPERATOR -	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 HISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c	N 2 1 360 360 30 1 7 14 1 2 134 134 1 12 12	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00 \$124,99	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$55,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00 \$14,499.88
Scope of Work Call Order Amo Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 16 129 57 57 109 64 124	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL GUR (4) MAN RENTAL OF M OPERATOR - CARPENTER	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 MISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (y) (w) (w) TT (TBD) CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE MOBILIZATION & DEMOBILIZATION (TBD) CRANE MOBILIZATION & DEMOBILIZATION (TBD) (Min 30Ft Reach) (Min 30FT	N 2 1 360 360 30 1 1 7 14 1 1 2 134 1 12 504 504	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR HR		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00 \$124,99 \$113,39	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00 \$14,99.88 \$57,148.56
Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 16 129 57 109 64 124	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL GUR (4) MAN 8.5 TN CARRY RENTAL OF M OPERATOR - CARPENTER	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 MISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (w) (w) (w) (w) CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE MOBILIZATION & DEMOBILIZATION (TBD) (Min 30FL Reach) (Min 30	N 2 1 360 360 30 1 1 7 14 1 1 2 134 1 1 12 134 12 504	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR R R		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00 \$124,99 \$113,39	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00 \$1,499.88 \$57,148.56
Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 18 129 57 109 64 124	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FOUR (4) MAN 8.5 TN CARRY RENTAL OF M OPERATOR - CARPENTER	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 MISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (y) (y) (w) (w) (w) (w) (w) (w) CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE MOBILIZATION & DEMOBILIZATION (TBD) (MIN 30FL Reach) (MIN 30FL RE	N 2 1 360 360 30 1 1 7 14 1 1 2 134 1 1 12 504	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR R R S		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$550,000,00 \$124,99 \$113,39	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00 \$1,499.88 \$57,148.56
Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 16 129 57 109 64 124	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL GUR (4) MAN 8.5 TN CARRY RENTAL OF M OPERATOR - CARPENTER	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci ENERATOR (500 MISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) by) (W) (W) (W) (W) (W) CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE MOBILIZATION & DEMOBILIZATION (TBD) (Min 30FI Reach) (Min 30	N 2 1 360 360 30 1 1 7 14 1 1 2 134 12 504	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR R S		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$964,44 \$550,000,00 \$124,99 \$113,39	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$50,000.00 \$1,499.88 \$57,148.56
Job Title: M/V Kevin Michael Allision Repairs Total Cost: \$2.366.022.83	62 62 105 20 18 18 129 57 109 64 124	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF M FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL GUR (4) MAN 8.5 TN CARRY RENTAL OF M OPERATOR - CARPENTER	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 IISC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C N DIVE TEAM W Y DECK CRANE IISC. EQUIPMEN GROUP 2 – STF	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) by) (W) (W) (W) (W) (T (TBD) CRANE STANDBY CRANE STANDBY CRANE STANDBY CRANE MOBILIZATION & DEMOBILIZATION (TBD) CRANE MOBILIZATION & DEMOBILIZATION (TBD) (Min 30F1 Reach) (Min 30F1	N 2 1 360 360 30 1 7 11 7 14 1 134 1 12 504	DY EA TBD HR HR DY TBD DY EA TBD DY EA TBD DY HR TBD HR S		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00 \$124,99 \$113,39	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$54,427.80 \$250,000.00 \$55,697.25 \$420,535.50 \$30,000.00 \$115,834.96 \$50,000.00 \$1,499.88 \$57,148.56
	62 62 105 20 18 18 16 129 57 109 64 124	FLOATING PL FLOATING PL FORKLIFT (M FORKLIFT (M TOWABLE GE RENTAL OF N FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL FLOATING PL CARPENTER	ANT WITH MATI ANT W/2000 TN n 5,000lb Capaci INERATOR (500 INERATOR (500 INSC. EQUIPMEN ANT W/400 TN C ANT W/400 TN C ANT W/400 TN C N DIVE TEAM W Y DECK CRANE ISC. EQUIPMEN GROUP 2 – STF	ERIAL BARGE W/SPUDS & RAMPS 12 HOUR DURATIO CRANE MOBILIZATION & DEMOBILIZATION (TBD) (b) (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c	N 2 1 360 360 30 1 7 14 1 134 1 12 504	DY EA TBD HR HR DY TBD DY EA TBD DY HR TBD HR K S		\$2,652,25 \$11,990,92 \$60,000,00 \$222,83 \$222,83 \$1,814,26 \$250,000,00 \$7,956,75 \$30,038,25 \$30,038,25 \$30,000,00 \$9,637,85 \$864,44 \$50,000,00 \$124,99 \$113,39	\$74,263.00 \$23,981.84 \$60,000.00 \$80,218.80 \$80,218.80 \$55,697.25 \$420,535.50 \$30,000.00 \$19,275.70 \$115,834.96 \$550,000.00 \$1,499.88 \$57,148.56 Call Order Amou