


```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               *                               *
* Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0,                               *
*                               *                               *
*****

```

```

+++ P R O G R A M   P A R A M E T E R S +++
=====

```

Process is DEFAULT: Units Are Degrees, Feet, and Kips Unless Specified

```

Max. Length for Drag Comp.      =      20.000
Max. Area for Drag Comp.        =     400.000
Specific Gravity of Water       =       1.025
Acceleration of Gravity        =     32.200
Water Depth                     =       0.000
Added Mass Coef. for Tubes     =       0.800
Added Mass Coef. for Plates    =       0.376
Drag Coef. for Plates          =       1.000

```

NUMBER	COEFFICIENT
-----	-----
.10E+01	0.63
.10E+09	0.63

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ CATEGORY SUMMARY FOR SELECTED PARTS +++
 =====

Process is DEFAULT: Units Are Degrees, Feet, and Kips Unless Specified

Results Are Reported In The Part System

Category	Weight Factor	Buoyancy Factor	Name	Weight	/--- Center of Gravity ---/			Buoyancy	/-- Center of Buoyancy --/		
					X	Y	Z		X	Y	Z
CARGO	1.000	1.000	CARGO	490.00	24.50	2.46	14.00	0.00	0.00	0.00	0.00
CREW	1.000	1.000	CREW	12.00	72.00	0.00	16.19	0.00	0.00	0.00	0.00
LEGS	1.000	1.000	C_PAD	26.08	97.25	0.00	-54.00	0.00	0.00	0.00	0.00
			P_PAD	26.08	24.00	-31.75	-54.00	0.00	0.00	0.00	0.00
			S_PAD	26.08	24.00	31.75	-54.00	0.00	0.00	0.00	0.00
			~LEG	478.92	48.42	0.00	46.75	615.31	48.42	0.00	46.75
L_SHIP	1.000	1.000	HULL	837.79	50.44	-1.28	9.08	0.00	0.00	0.00	0.00
VARIABLE	1.000	1.000	VARIABLE	391.00	59.61	0.01	15.03	0.00	0.00	0.00	0.00
TOTAL				2287.94	46.07	0.06	16.92	615.31	48.42	0.00	46.75

 * *** MOSES *** *
 * ----- *
 * January 13, 2003 *
 * Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
 * *****

+++ E X T E R N A L P I E C E S U M M A R Y +++
 =====

Process is DEFAULT: Units Are Degrees, Feet, and Kips Unless Specified

Piece Name	Permeab.	Diffrac. Type	Wind Coefficients			Drag Coefficients			Projected Area			Sum Area * Normal		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
HULL	1.000	3DDif	1.00	1.00	1.00	1.00	1.00	1.00	667.	860.	5623.	-0.022	-0.007	0.000
JKTWR_P	0.000	None	0.64	0.64	0.00	0.00	0.00	0.00	84.	84.	28.	0.000	0.000	0.000
JKTWR_S	0.000	None	0.64	0.64	0.00	0.00	0.00	0.00	84.	84.	28.	0.000	0.000	0.000
JKTWR_C	0.000	None	0.64	0.64	0.00	0.00	0.00	0.00	84.	84.	28.	0.000	0.000	0.000
PH1	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	77.	3.	22.	0.000	0.000	0.000
PH2	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	179.	67.	114.	0.000	0.000	0.000
PH3	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	274.	56.	165.	0.000	0.000	0.000
PH4	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	227.	93.	368.	0.000	0.000	0.000
QTRS02	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	300.	233.	1008.	0.000	0.000	0.000
QTRS01	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	195.	206.	715.	0.000	0.000	0.000
CARGO	0.000	None	1.00	1.00	0.00	0.00	0.00	0.00	121.	162.	300.	0.000	0.000	0.000
KP_P_CRA	0.000	None	1.00	1.00	0.00	1.00	1.00	0.00	53.	53.	2.	0.000	0.000	0.000
PD_P_CRA	0.000	None	0.64	0.64	0.00	0.64	0.64	0.00	20.	20.	20.	0.000	0.000	0.000
CB_P_CRA	0.000	None	1.00	1.00	0.00	1.00	1.00	0.00	56.	56.	44.	0.000	0.000	0.000
KP_S_CRA	0.000	None	1.00	1.00	0.00	1.00	1.00	0.00	5.	5.	0.	0.000	0.000	0.000
PD_S_CRA	0.000	None	0.64	0.64	0.00	0.64	0.64	0.00	9.	9.	7.	0.000	0.000	0.000
CB_S_CRA	0.000	None	1.00	1.00	0.00	1.00	1.00	0.00	9.	9.	7.	0.000	0.000	0.000
P_CRANE	0.000	None	0.60	0.60	0.60	0.00	0.00	0.00	203.	455.	734.	-101.336	909.008	1461.169
S_CRANE	0.000	None	0.60	0.60	0.60	0.00	0.00	0.00	18.	41.	66.	-36.581	73.818	131.613

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                          *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ P A R A M E T E R S U M M A R Y +++
=====

Weights
=====

Variable = 391.00 Kips
Variable CG = 59.61 Feet
Cargo = 490.00 Kips
Cargo CG = 24.50 Feet

Safety Factor
=====

Safety Factor = 3.00

Jacks
=====

Holding/Leg = 1052.04 Kips
Jacking/Leg = 789.00 Kips

Environment
=====

Wave Height = 0.00 Feet
Wave Period = 8.00 Seconds
Wave Crest = 0.00 Feet
Surface Current = 0.00 Feet/Second
Wind Speed = 0.00 Knots
Water depth = 50.00 Feet
Penetration = 4.00 Feet

Geometry (in feet)
=====

Air Gap = 0.00
Leg length = 200.00
Top Guide = 18.50
Bottom Guide = 1.50
Leg Element Len = 11.10
Leg Above JH = 127.50
Active Leg Len = 55.50
Buckling K factor = 1.72

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                          *
*                               *
* Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0,                  *
* Forces Due to Null Enviroment                                         *
*                               *
*****

```

+++ F O R C E S A C T I N G O N H U L L +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and Kips Unless Specified

Results Are Reported In Body System

Type of Force	X	Y	Z	MX	MY	MZ
Weight	0.0	0.0	-2287.9	-137.	105410.	0.
Buoyancy	0.0	0.0	164.9	0.	-7984.	0.
Total	0.0	0.0	-2123.0	-137.	97427.	0.

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               *
* Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0,                               *
* Forces Due to Environment 000 Deg from Stern                               *
*                               *
*****

```

+++ F O R C E S A C T I N G O N H U L L +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and Kips Unless Specified

Results Are Reported In Body System

Type of Force	X	Y	Z	MX	MY	MZ
Weight	0.0	0.0	-2287.9	-137.	105410.	0.
Buoyancy	0.0	0.0	164.9	0.	-7984.	0.
Total	0.0	0.0	-2123.0	-137.	97427.	0.

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ R E S T R A I N T L O A D S +++
=====

Units Are KSI, Degrees, Feet, and Kips Unless Specified

FX Intensity For Most Severe Load Case with Forces Greater Than 0

Element	/-- Node Names -/	Class	Case	/----- Force -----/			/----- Moment -----/		
				X	Y	Z	X	Y	Z
FIX	*LC6	~FIX	DIR_000	-0.51	0.00	634.47	0.02	0.03	0.00
FIX 0035	*LP6	~FIX	DIR_000	0.26	0.47	742.14	-0.35	0.70	0.02
FIX 0036	*LS6	~FIX	DIR_000	0.26	-0.47	746.45	0.39	0.70	-0.02

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

```

+++ R E S T R A I N T   E N V E L O P E +++
=====

```

Units Are KSI, Degrees, Feet, and Kips Unless Specified

Element	/-- Node Names -/	Class	/----- Force -----/			/----- Moment -----/		
			X	Y	Z	X	Y	Z
FIX	*LC6	~FIX	-0.51	0.00	634.47	0.02	0.03	0.00
			-0.51	0.00	634.47	0.02	0.03	0.00
FIX 0035	*LP6	~FIX	0.26	0.47	742.14	-0.35	0.70	0.02
			0.26	0.47	742.14	-0.35	0.70	0.02
FIX 0036	*LS6	~FIX	0.26	-0.47	746.45	0.39	0.70	-0.02
			0.26	-0.47	746.45	0.39	0.70	-0.02

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ R E S T R A I N T L O A D S +++
 =====

Units Are KSI, Degrees, Feet, and Kips Unless Specified

FX Intensity For Most Severe Load Case with Forces Greater Than 0

Element	/-- Node Names -/	Class	Case	/----- Force -----/			/----- Moment -----/		
				X	Y	Z	X	Y	Z
FIX	*LC6	~FIX	DIR_000	-0.51	0.00	634.47	0.02	0.03	0.00
FIX 0035	*LP6	~FIX	DIR_000	0.26	0.47	742.14	-0.35	0.70	0.02
FIX 0036	*LS6	~FIX	DIR_000	0.26	-0.47	746.45	0.39	0.70	-0.02

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ R E S T R A I N T E N V E L O P E +++
=====

Units Are KSI, Degrees, Feet, and Kips Unless Specified

Element	/-- Node Names -/	Class	/----- Force -----/			/----- Moment -----/		
			X	Y	Z	X	Y	Z
FIX	*LC6	~FIX	-0.51	0.00	634.47	0.02	0.03	0.00
			-0.51	0.00	634.47	0.02	0.03	0.00
FIX 0035	*LP6	~FIX	0.26	0.47	742.14	-0.35	0.70	0.02
			0.26	0.47	742.14	-0.35	0.70	0.02
FIX 0036	*LS6	~FIX	0.26	-0.47	746.45	0.39	0.70	-0.02
			0.26	-0.47	746.45	0.39	0.70	-0.02

```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     January 13, 2003                             *
*      Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0,                       *
*                                     *****                               *

```

```

+++ B E A M   L O A D S +++
=====

```

Units Are KSI, Degrees, Feet, and Kips Unless Specified

Axial Intensity For Most Severe Load Case with Forces Greater Than 0

Element	-- Node	Names -/	Class	Case	Distance (in)	Axial Load	/----- Shear -----/	Torque	/----- Moments -----/
							Y Z		Y Z
LC1	*LC0	*LC1	~LEG	DIR_000	221.99	-645.46	0.00 1.53	0.00	28.34 0.02
LC2	*LC1	*LC2	~LEG	DIR_000	133.19	-654.26	0.00 -0.51	0.00	22.68 0.02
LC3	*LC2	*LC3	~LEG	DIR_000	133.19	-663.05	0.00 -0.51	0.00	17.02 0.02
LC4	*LC3	*LC4	~LEG	DIR_000	133.19	-671.84	0.00 -0.51	0.00	11.35 0.02
LC5	*LC4	*LC5	~LEG	DIR_000	133.19	-680.64	0.00 -0.51	0.00	5.69 0.02
LC6	*LC5	*LC6	~LEG	DIR_000	133.19	-689.43	0.00 -0.51	0.00	0.03 0.02
LCT	*LCT	*LC0	~LEG	DIR_000	1529.99	-101.01	0.00 0.00	0.00	0.00 0.00
LP1	*LP0	*LP1	~LEG	DIR_000	221.99	-753.13	0.97 -1.38	-0.79	-25.47 -13.46
LP2	*LP1	*LP2	~LEG	DIR_000	133.19	-761.92	-0.26 0.47	-0.02	-20.30 -10.62
LP3	*LP2	*LP3	~LEG	DIR_000	133.19	-770.72	-0.26 0.47	-0.02	-15.14 -7.79
LP4	*LP3	*LP4	~LEG	DIR_000	133.19	-779.51	-0.26 0.47	-0.02	-9.98 -4.96
LP5	*LP4	*LP5	~LEG	DIR_000	133.19	-788.31	-0.26 0.47	-0.02	-4.81 -2.13
LP6	*LP5	*LP6	~LEG	DIR_000	133.19	-797.10	-0.26 0.47	-0.02	0.35 0.70
LPT	*LPT	*LP0	~LEG	DIR_000	1529.99	-101.01	0.00 0.00	0.00	0.00 0.00
LS1	*LS0	*LS1	~LEG	DIR_000	221.99	-757.44	0.97 1.37	0.79	25.43 -13.45
LS2	*LS1	*LS2	~LEG	DIR_000	133.19	-766.24	-0.26 -0.47	0.02	20.27 -10.62
LS3	*LS2	*LS3	~LEG	DIR_000	133.19	-775.03	-0.26 -0.47	0.02	15.10 -7.79
LS4	*LS3	*LS4	~LEG	DIR_000	133.19	-783.82	-0.26 -0.47	0.02	9.94 -4.96
LS5	*LS4	*LS5	~LEG	DIR_000	133.19	-792.62	-0.26 -0.47	0.02	4.77 -2.13
LS6	*LS5	*LS6	~LEG	DIR_000	133.19	-801.41	-0.26 -0.47	0.02	-0.39 0.70
LST	*LST	*LS0	~LEG	DIR_000	1529.99	-101.01	0.00 0.00	0.00	0.00 0.00

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ JOINT DISPLACEMENTS +++
 =====

In Body Part System

Node Name	Load Case	/----- Deflection (in) -----/			/----- Rotation (Deg) -----/		
		X	Y	Z	X	Y	Z
*LC1	DIR_000	-0.01157	0.00053	-0.07570	-0.00005	-0.00293	0.00000
	NULL	-0.01157	0.00053	-0.07570	-0.00005	-0.00293	0.00000
*LP1	DIR_000	-0.01300	0.00005	-0.08791	-0.00173	-0.00001	-0.00004
	NULL	-0.01300	0.00005	-0.08791	-0.00173	-0.00001	-0.00004
*LS1	DIR_000	-0.01302	0.00098	-0.08840	0.00164	-0.00001	0.00004
	NULL	-0.01302	0.00098	-0.08840	0.00164	-0.00001	0.00004

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

+++ S E L E C T E D V A L U E S +++
=====

Distance	DIR_000:Axi	DIR_000:VY	DIR_000:VZ	DIR_000:Tor	DIR_000:MY	DIR_000:MZ
0.001	-753.131	-0.255	0.465	-0.015	-25.465	-13.455
0.001	-753.131	-0.255	0.465	-0.015	-25.465	-13.455
5.550	-757.527	-0.255	0.465	-0.015	-22.884	-12.039
11.099	-761.924	-0.255	0.465	-0.015	-20.302	-10.624
11.100	-761.925	-0.255	0.465	-0.015	-20.302	-10.623
16.649	-766.321	-0.255	0.465	-0.015	-17.720	-9.208
22.198	-770.718	-0.255	0.465	-0.015	-15.139	-7.792
22.199	-770.719	-0.255	0.465	-0.015	-15.138	-7.792
27.748	-775.116	-0.255	0.465	-0.015	-12.557	-6.376
33.298	-779.512	-0.255	0.465	-0.015	-9.975	-4.960
33.298	-779.513	-0.255	0.465	-0.015	-9.974	-4.960
38.848	-783.909	-0.255	0.465	-0.015	-7.393	-3.544
44.397	-788.306	-0.255	0.465	-0.015	-4.812	-2.129
44.398	-788.307	-0.255	0.465	-0.015	-4.811	-2.128
49.947	-792.703	-0.255	0.465	-0.015	-2.229	-0.713
55.496	-797.100	-0.255	0.465	-0.015	0.352	0.703

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               January 13, 2003                               *
*                               Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
*                               *****                               *

```

```

+++ C O D E +++
=====

```

Check

```

Check Length      = 52.7412
Buckling K factor = 1.72
K1                = 90.71487
Rotational Stiff  = 2.5e4 k-ft/rad

```

 * *** MOSES *** *
 * ----- *
 * January 13, 2003 *
 * Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0, *
 * Length Used for Check = 52.7412, Rot_stif = 2.5e4 k-ft/rad *
 * *****

+++ S T A N D A R D W S B E A M C H E C K +++
 =====

Units Are KSI, Degrees, Feet, and Kips Unless Specified

Stresses For Most Severe Load Case with Unity Ratios Greater Than 0

Element	Node	Names	Class	Case	/- KL/R -/-		Distance (in)	/----- Stresses/Allowable (Ksi) -----/				API Unity Check	Comments	
					Mom	AMF		Y-	Z-	Y-	Z-			Y-
LC1	*LC0	*LC1	~LEG	DIR_000	55.4	61.8	222.0	-3.19	0.12	0.00	0.00	0.02	0.10	Eq H1-3
					1.117	1.103		33.32	51.11	51.11	31.20	31.20		
LC2	*LC1	*LC2	~LEG	DIR_000	55.4	61.8	133.2	-3.23	0.09	0.00	0.00	-0.01	0.10	Eq H1-3
					1.116	1.102		33.32	51.11	51.11	31.20	31.20		
LC3	*LC2	*LC3	~LEG	DIR_000	55.4	61.8	133.2	-3.27	0.07	0.00	0.00	-0.01	0.10	Eq H1-3
					1.116	1.101		33.32	51.11	51.11	31.20	31.20		
LC4	*LC3	*LC4	~LEG	DIR_000	55.4	61.8	133.2	-3.32	0.05	0.00	0.00	-0.01	0.10	Eq H1-3
					1.115	1.100		33.32	51.11	51.11	31.20	31.20		
LC5	*LC4	*LC5	~LEG	DIR_000	55.4	61.8	133.2	-3.36	0.02	0.00	0.00	-0.01	0.10	Eq H1-3
					1.114	1.099		33.32	51.11	51.11	31.20	31.20		
LC6	*LC5	*LC6	~LEG	DIR_000	55.4	61.8	133.2	-3.40	0.00	0.00	0.00	-0.01	0.11	Hoop
					1.113	1.098		33.32	51.11	51.11	31.20	31.20	0.10	Eq H1-3
LCT	*LCT	*LC0	~LEG	DIR_000	55.4	61.8	1530.0	-0.50	0.00	0.00	0.00	0.00	0.01	Eq H1-3
					1.167	1.165		33.32	51.11	51.11	31.20	31.20		
LP1	*LP0	*LP1	~LEG	DIR_000	55.4	61.8	222.0	-3.72	-0.11	0.07	0.01	-0.02	0.11	Eq H1-3
					1.107	1.090		33.32	51.11	51.11	31.20	31.20		
LP2	*LP1	*LP2	~LEG	DIR_000	55.4	61.8	133.2	-3.76	-0.08	0.05	0.00	0.01	0.11	Eq H1-3
					1.106	1.089		33.32	51.11	51.11	31.20	31.20		
LP3	*LP2	*LP3	~LEG	DIR_000	55.4	61.8	133.2	-3.81	-0.06	0.04	0.00	0.01	0.12	Eq H1-3
					1.106	1.088		33.32	51.11	51.11	31.20	31.20		
LP4	*LP3	*LP4	~LEG	DIR_000	55.4	61.8	133.2	-3.85	-0.04	0.03	0.00	0.01	0.12	Eq H1-3
					1.105	1.087		33.32	51.11	51.11	31.20	31.20		
LP5	*LP4	*LP5	~LEG	DIR_000	55.4	61.8	133.2	-3.89	-0.02	0.01	0.00	0.01	0.12	Eq H1-3
					1.104	1.086		33.32	51.11	51.11	31.20	31.20		
LP6	*LP5	*LP6	~LEG	DIR_000	55.4	61.8	133.2	-3.94	0.00	0.00	0.00	0.01	0.12	Eq H1-3
					1.103	1.085		33.32	51.11	51.11	31.20	31.20		
LPT	*LPT	*LP0	~LEG	DIR_000	55.4	61.8	1530.0	-0.50	0.00	0.00	0.00	0.00	0.01	Eq H1-3
					1.167	1.165		33.32	51.11	51.11	31.20	31.20		
LS1	*LS0	*LS1	~LEG	DIR_000	55.4	61.8	222.0	-3.74	0.11	0.07	0.01	0.02	0.11	Eq H1-3
					1.107	1.090		33.32	51.11	51.11	31.20	31.20		
LS2	*LS1	*LS2	~LEG	DIR_000	55.4	61.8	133.2	-3.78	0.08	0.05	0.00	-0.01	0.12	Eq H1-3
					1.106	1.089		33.32	51.11	51.11	31.20	31.20		
LS3	*LS2	*LS3	~LEG	DIR_000	55.4	61.8	133.2	-3.83	0.06	0.04	0.00	-0.01	0.12	Eq H1-3
					1.105	1.088		33.32	51.11	51.11	31.20	31.20		
LS4	*LS3	*LS4	~LEG	DIR_000	55.4	61.8	133.2	-3.87	0.04	0.03	0.00	-0.01	0.12	Eq H1-3
					1.104	1.087		33.32	51.11	51.11	31.20	31.20		
LS5	*LS4	*LS5	~LEG	DIR_000	55.4	61.8	133.2	-3.91	0.02	0.01	0.00	-0.01	0.12	Eq H1-3
					1.104	1.086		33.32	51.11	51.11	31.20	31.20		
LS6	*LS5	*LS6	~LEG	DIR_000	55.4	61.8	133.2	-3.96	0.00	0.00	0.00	-0.01	0.12	Eq H1-3
					1.103	1.085		33.32	51.11	51.11	31.20	31.20		
LST	*LST	*LS0	~LEG	DIR_000	55.4	61.8	1530.0	-0.50	0.00	0.00	0.00	0.00	0.01	Eq H1-3
					1.167	1.165		33.32	51.11	51.11	31.20	31.20		

Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0,



Rotational Spring Co * 10**3

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*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     January 13, 2003                               *
*      Choctaw Cargo = 490, Water Depth = 50, Air Gap = 0,                               *
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+++ I N D E X O F O U T P U T +++
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