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OFFICE OF THE SECRETARY  
RULEMAKINGS AND  
ADJUDICATIONS STAFF

Table 10.3.3a  
MPC TRANSFER INTO THE HI-STORM 100 SYSTEM DIRECTLY FROM TRANSPORT USING THE 125-TON HI-TRAC  
TRANSFER CASK

ESTIMATED OPERATIONAL EXPOSURES† (45,000 MWD/MTU, 9-YEAR COOLED PWR FUEL)

ACTION	CHAPTER 8 STEP	DURATION (MINUTES)	OPERATOR LOCATION (FIGURE 10.3.1)	NUMBER OF OPERATORS	DOSE RATE AT OPERATOR LOCATION (MREM/HR)	DOSE TO INDIVIDUAL (MREM/HR)	TOTAL DOSE (PERSON-MREM)	ASSUMPTIONS
Section 8.5.2								
MEASURE HI-STAR DOSE RATES	1	16	17A	2	14.1	3.8	7.5	16 POINTS@1 POINT/MIN
REMOVE PERSONNEL BARRIER	2	10	17C	2	21.5	3.6	7.2	ATTACH SLING REMOVE 8 LOCKS
PERFORM REMOVABLE CONTAMINATION SURVEYS	3	1	17C	1	21.5	0.4	0.4	10 SMEARS@10 SMEARS/MINUTE
REMOVE IMPACT LIMITERS	4	16	17A	2	14.1	3.8	7.5	ATTACH FRAME REMOVE 22 BOLTS IMPACT TOOLS
REMOVE TIE-DOWN	5	6	17A	2	14.1	1.4	2.8	ATTACH 2-LEGGED SLING REMOVE 4 BOLTS
PERFORM A VISUAL INSPECTION OF OVERPACK	6	10	17B	1	9	1.5	1.5	CHECKSHEET USED
REMOVE REMOVABLE SHEAR RING SEGMENTS	7	4	17A	1	14.1	0.9	0.9	4 BOLTS EACH @2/MIN X 2 SEGMENTS
UPEND HI-STAR OVERPACK	8	20	17B	2	9	3.0	6.0	DISCONNECT LIFT YOKE
INSTALL TEMPORARY SHIELD RING SEGMENTS	9	16	18A	1	7.9	2.1	2.1	8 SEGMENTS @ 2 MIN/SEGMENT
FILL TEMPORARY SHIELD RING SEGMENTS	9	25	18A	1	7.9	3.3	3.3	230 GAL @10GPM, LONG HANDLED SPRAYER
REMOVE OVERPACK VENT PORT COVER PLATE	10 a	2	18A	1	7.9	0.3	0.3	4 BOLTS @2/MIN
ATTACH BACKFILL TOOL	10 a	2	18A	1	7.9	0.3	0.3	4 BOLTS @2/MIN
OPEN/CLOSE VENT PORT PLUG	10 c	0.5	18A	1	7.9	0.1	0.1	SINGLE TURN BY HAND NO TOOLS
REMOVE CLOSURE PLATE BOLTS	12	39	18A	2	7.9	5.1	10.3	52 BOLTS@4/MIN X 3 PASSES

† See notes at bottom of Table 10.3.4.

NUCLEAR REGULATORY COMMISSION

Case No. \_\_\_\_\_ Official Ex. No. AAA

In the matter of SPS

Staff _____	<input type="checkbox"/>	IDENTIFIED _____
Applicant _____	<input checked="" type="checkbox"/>	RECEIVED _____
Intervenor _____	<input type="checkbox"/>	REJECTED _____
Other _____	<input type="checkbox"/>	WITHDRAWN _____
DATE <u>5/16</u>	<input type="checkbox"/>	Witness _____
Clerk <u>[Signature]</u>	<input type="checkbox"/>	_____

Table 10.3.3a (Continued)  
MPC TRANSFER INTO THE HI-STORM 100 SYSTEM DIRECTLY FROM TRANSPORT USING THE 125-TON HI-TRAC  
TRANSFER CASK  
ESTIMATED OPERATIONAL EXPOSURES<sup>†</sup> (45,000 MWD/MTU, 9-YEAR COOLED PWR FUEL)

ACTION	CHAPTER 8 STEP	DURATION (MINUTES)	OPERATOR LOCATION (FIGURE 10.3.1)	NUMBER OF OPERATORS	DOSE RATE AT OPERATOR LOCATION (MREM/HR)	DOSE TO INDIVIDUAL (MREM/HR)	TOTAL DOSE (PERSON-MREM)	ASSUMPTIONS
REMOVE OVERPACK CLOSURE PLATE	12	2	18A	1	7.9	0.3	0.3	4 SHACKLES@2/MIN
INSTALL HI-STAR SEAL SURFACE PROTECTOR	13	2	19B	1	7.9	0.3	0.3	PLACED BY HAND NO TOOLS
INSTALL TRANSFER COLLAR ON HI-STAR	14	10	19B	2	7.9	1.3	2.6	ALIGN AND POSITION REMOVE 4 SHACKLES
REMOVE MPC LIFT CLEAT HOLE PLUGS	15	2	19A	1	150.9	5.0	5.0	4 PLUGS AT 2/MIN NO TORQUING
INSTALL MPC LIFT CLEATS AND LIFT SLING	16	25	19A	2	150.9	62.9	125.8	INSTALL CLEATS AND HYDRO TORQUE 4 BOLTS
MATE OVERPACKS	21	10	20B	2	27.4	4.6	9.1	ALIGNMENT GUIDES USED
REMOVE DOOR LOCKING PINS AND OPEN DOORS	22	4	20B	2	27.4	1.8	3.7	2 PINS@2/MIN
INSTALL TRIM PLATES	23	4	20B	2	27.4	1.8	3.7	INSTALLED BY HAND NO FASTENERS
REMOVE TRIM PLATES	26	4	20B	2	27.4	1.8	3.7	INSTALLED BY HAND NO FASTENERS
CLOSE HI-TRAC DOORS AND INSTALL DOOR LOCKING PINS	27	4	20B	2	27.4	1.8	3.7	2 PINS@2/MIN
MATE OVERPACKS	30	10	13B	2	27.4	4.6	9.1	ALIGNMENT GUIDES USED
ATTACH MPC LIFT SLINGS TO MPC LIFT CLEATS	30	10	13A	2	52.3	8.7	17.4	2 SLINGS@5MIN/SLING NO TOOLS
REMOVE TRANSFER LID DOOR LOCKING PINS AND OPEN DOORS	30	4	13B	2	27.4	1.8	3.7	2 PINS@2/MIN
INSTALL TRIM PLATES	30	4	13B	2	27.4	1.8	3.7	INSTALLED BY HAND NO FASTENERS

<sup>†</sup> See notes at bottom of Table 10.3.4.

Table 10.3.3a (Continued)  
MPC TRANSFER INTO THE HI-STORM 100 SYSTEM DIRECTLY FROM TRANSPORT USING THE 125-TON HI-TRAC  
TRANSFER CASK  
ESTIMATED OPERATIONAL EXPOSURES<sup>†</sup> (45,000 MWD/MTU, 9-YEAR COOLED PWR FUEL)

ACTION	CHAPTER 8 STEP	DURATION (MINUTES)	OPERATOR LOCATION (FIGURE 10.3.1)	NUMBER OF OPERATORS	DOSE RATE AT OPERATOR LOCATION (MREM/HR)	DOSE TO INDIVIDUAL (MREM/HR)	TOTAL DOSE (PERSON-MREM)	ASSUMPTIONS
DISCONNECT SLINGS FROM MPC LIFTING DEVICE	30	10	13A	2	52.3	8.7	17.4	2 SLINGS@5/MIN
REMOVE TRIM PLATES	30	4	13B	2	27.4	1.8	3.7	INSTALLED BY HAND NO FASTENERS
REMOVE MPC LIFT CLEATS AND MPC LIFT SLINGS	30	10	14A	1	150.9	25.2	25.2	4 BOLTS,NO TORQUING
INSTALL HOLE PLUGS IN EMPTY MPC BOLT HOLES	30	2	14A	1	150.9	5.0	5.0	4 PLUGS AT 2/MIN NO TORQUING
REMOVE HI-STORM VENT DUCT SHIELD INSERTS	30	2	15A	1	6.3	0.2	0.2	4 SHACKLES@2/MIN
REMOVE ALIGNMENT DEVICE	30	4	15A	1	6.3	0.4	0.4	REMOVED BY HAND NO TOOLS (4 PCS@1/MIN)
INSTALL HI-STORM LID AND INSTALL LID STUDS/NUITS	30	25	16A	2	2.4	1.0	2.0	INSTALL LID AND HYDRO TORQUE 4 BOLTS
INSTALL HI-STORM EXIT VENT GAMMA SHIELD CROSS PLATES	30	4	16B	1	19.1	1.3	1.3	4 PCS @ 1/MIN INSTALL BY HAND NO TOOLS
INSTALL THERMOCOUPLES	30	20	16B	1	19.1	6.4	6.4	4@5MIN/THERMOCOUPLE
INSTALL EXIT VENT SCREENS	30	20	16B	1	19.1	6.4	6.4	4 SCREENS@5MIN/SCREEN
REMOVE HI-STORM LID LIFTING DEVICE	30	2	16A	1	2.4	0.1	0.1	4 SHACKLES@2/MIN
INSTALL HOLE PLUGS IN EMPTY HOLES	30	2	16A	1	2.4	0.1	0.1	4 PLUGS AT 2/MIN NO TORQUING
PERFORM SHIELDING EFFECTIVENESS TESTING	31	16	16D	1	9.6	2.6	2.6	16POINTS@1 MIN

<sup>†</sup> See notes at bottom of Table 10.3.4.

Table 10.3.3a (Continued)  
MPC TRANSFER INTO THE HI-STORM 100 SYSTEM DIRECTLY FROM TRANSPORT USING THE 125-TON HI-TRAC  
TRANSFER CASK

ESTIMATED OPERATIONAL EXPOSURES<sup>†</sup> (45,000 MWD/MTU, 9-YEAR COOLED PWR FUEL)

ACTION	CHAPTER 8 STEP	DURATION (MINUTES)	OPERATOR LOCATION (FIGURE 10.3.1)	NUMBER OF OPERATORS	DOSE RATE AT OPERATOR LOCATION (MREM/HR)	DOSE TO INDIVIDUAL (MREM/HR)	TOTAL DOSE (PERSON- MREM)	ASSUMPTIONS
SECURE HI-STORM TO TRANSPORT DEVICE	30	10	16A	1	2.4	0.4	0.4	ASSUMES AIR PAD
TRANSFER HI-STORM TO ITS DESIGNATED STORAGE LOCATION	30	40	16C	1	6.6	4.4	4.4	200 FEET @ 4FT/MIN
INSERT HI-STORM LIFTING JACKS	30	4	16D	1	9.6	0.6	0.6	4 JACKS@1/MIN
REMOVE AIR PAD	30	5	16D	1	9.6	0.8	0.8	1 PAD MOVED BY HAND
REMOVE HI-STORM LIFTING JACKS	30	4	16D	1	9.6	0.6	0.6	4 JACKS@1/MIN
INSTALL INLET VENT SCREENS	30	20	16D	1	9.6	3.2	3.2	4 SCREENS@5MIN/SCREEN
PERFORM AIR TEMPERATURE RISE TEST	32	8	16B	1	19.1	2.5	2.5	8 MEASMT@1/MIN
<b>TOTAL</b>							<b>324.9 PERSON-MREM</b>	

<sup>†</sup> See notes at bottom of Table 10.3.4.