

JOB ANALYSIS		UNLOADING VC R/C's		PAGE 1 OF 3	DATE: DECEMBER 1979
TRAINING GUIDE					
3	ASS YARD OPERATOR	SHIFTS SURVEYED	2	NO. OF OPERATORS OBSERVED	2
PT. YARD		SECTION	Very L	SAFETY REVIEW BY	
REQUIRED PERSONNEL		FRESH AIR MASK - GLOVES -			
OBJECTIVE EQUIPMENT		POTENTIAL HAZARDS OR ACCIDENTS		RECOMMENDED SAFE JOB PROCEDURE	
SEQUENCE OF BASIC JOB STEPS					
1- Secure fresh air mask, 6 "O" rings and roll of 1 1/2" Teflon tape	1- Cracked or scored "O" rings	2- Check railcar checks and hand brakes. Ground each railcar to the station with appropriate ground.	2- Cars roll off spot or electrical storm in static	3- Look at each step as you go up - Railcar walk ramp in middle before going to car and locking in place.	3- Check hand brakes and inspect wheel checks. Secure ground cable to car.
2- Blind steps to unloading platform and position walk ramp to car one area and lock in place	3- Tripping on steps - Back strain - Pinches on hand from loading ramp	3- Locate a pipe wrench and 2-2" nipples	4- Crossed threads on nipples	4- Check each nipple for worn threads.	4- Check each nipple for worn threads.
3- Remove old Teflon tape and replace with 1 1/2" Teflon tape on threads on each nipple	5- Leaks from nipple threads	5- Carry 2 nipples and pipe wrench to the dome area of VC car.	6- Unloading lines swing back and hit arm/threads	5- Replace Teflon tape on nipples even if old looks good	5- Replace Teflon tape on nipples even if old looks good
4- Unload 1 vapor and 1 liquid unloading line from station and wing over nuclear dome area	6- Unloading lines swing back and hit arm/threads	6- Put on fresh air mask and test face seal. Hookup mask to fresh air line on end of boom.	7- Dropping nipples and damaging threads	6- Stop back inside walking after wing boom over railcars.	6- Stop back inside walking after wing boom over railcars.
5- Carry 2 nipples and pipe wrench to the dome area of VC car.	7- Dropping nipples and damaging threads	7- Remove domed seal, bar and open domed	8- water in fresh air system	7- Carry one nipple with pipe wrench tighten around it and other one in other hand	7- Carry one nipple with pipe wrench tighten around it and other one in other hand
6- Put on fresh air mask and test face seal. Hookup mask to fresh air line on end of boom.	8- water in fresh air system	8- Domed could close	9- Domed could close	8- Bleed off water at filters on station	8- Bleed off water at filters on station
7- Remove domed seal, bar and open domed	9- Domed could close	9- Leaks and valves not fully closed	10- Leaks and valves not fully closed	9- Position domed all way back	9- Position domed all way back
8- Visually check inside dome area for leaks and test valve handles to be sure they are closed	10- Leaks and valves not fully closed	11- Leaks from valves	11- Leaks from valves	10- Check dome area for icing and push all valve handles to closed stop	10- Check dome area for icing and push all valve handles to closed stop
9- Remove vapor and liquid valves plug caps with pipe wrench	11- Leaks from valves	12- Leaks from nipple threads	12- Leaks from nipple threads	11- Do not stand in direction of open out if valve is leaking	11- Do not stand in direction of open out if valve is leaking
10- Screw in nipples hand tight and then tighten with pipe wrench	12- Leaks from nipple threads	13- KM sprayed to atmosphere	13- KM sprayed to atmosphere	12- Double check nipples to be sure they are tight	12- Double check nipples to be sure they are tight
11- Close bleed-off valves on end of booms	13- KM sprayed to atmosphere			13- Close bleed off valves securely	13- Close bleed off valves securely

JOB SAFETY ANALYSIS TRAINING GUIDE		JOB TASK UNLOADING VC R/C'S		PAGE 3 OF 3		DATE: DECEMBER 1979	
CLASS YARD OPERATOR		SHIFTS SURVEYED 2		NO. OF OPERATORS OBSERVED 2		ANALYST: Dean H. Haysworth	
SECTION Vinyx		SAFETY REVIEW BY		REVIEWED J. Barker		BY	
REQUIRED PERSONNEL		POTENTIAL HAZARDS OR ACCIDENTS		RECOMMENDED SAFE JOB PROCEDURE		BY	
SEQUENCE OF BASIC JOB STEPS							
3- Remove fresh air mask	23- _____	23- _____	23- _____	23- _____	23- _____	23- _____	23- _____
4- Get reading on sphere without guage and fill out logbook in yard office.	24- _____	24- _____	24- _____	24- _____	24- _____	24- _____	24- _____
5- After liqueid blows out of rail- in Copper 4 1/2 hours, go to compressor shed. Put on fresh air mask, check sight glasses in flow and head pressure. Measure all 4-way valves to pull vapor from railcars. Remove and unhook air mask.	25- _____	25- _____	25- _____	25- _____	25- _____	25- _____	25- _____
6- Recover vapor for 1 to 2 hrs. depending on temperature. When completed, put on air mask and shut-down compressor. Remove fresh air mask.	26- _____	26- _____	26- _____	26- _____	26- _____	26- _____	26- _____
7- Go to platform. Hook up air mask on boom and close off vapor and liqueid valves inside dome area. Remove air mask.	27- SAME AS #10	27- SAME AS #10	27- SAME AS #10	27- SAME AS #10	27- SAME AS #10	27- SAME AS #10	27- SAME AS #10
8- Open switches on Recovery System - evacuate lines to -10 lbs. Watch gauges on liqueid/vapor lines.	28- Liqueid left in lines	28- Liqueid left in lines	28- Liqueid left in lines	28- Liqueid left in lines	28- Liqueid left in lines	28- Liqueid left in lines	28- Liqueid left in lines
9- Close valves on end of boom. Turn off recovery system switches.	29- _____	29- _____	29- _____	29- _____	29- _____	29- _____	29- _____
10- Put on air mask. Open bleed off valves on each flex line.	30- _____	30- _____	30- _____	30- _____	30- _____	30- _____	30- _____
11- REVERSE HOOKUP STEPS	31- _____	31- _____	31- _____	31- _____	31- _____	31- _____	31- _____
12- Remove air mask. Get sphere reading and fill out logbook.	32- _____	32- _____	32- _____	32- _____	32- _____	32- _____	32- _____

28- Do not unhook lines until -10 lbs reached on gauges on both vapor and liqueid lines.