Job Name	Location on Vessel	Date of Revision	Date of Use	JSA Reference #
BUNKERING FUEL	ALL AREAS OUTSIDE VESSEL	15Aug2022		JSA 001

Job Steps/Task	Hazards Associated with Job and Potential Causes	Initial Risk Rating	Hazard Controls	Responsible Person	Residual Risk
Record the job steps in sequence of the Job Scope	Describe all hazards identified for each task based on observations and experience	Place Low, Medium, High in the box below.	Place all controls for the associated hazards. Use the hierarchy of control to identify the best way to mitigate the hazards		Place Low, Medium, or High in the box below.
Bunker Preparation	Slips, Trips, and Falls Spill Fall Overboard	**-MEDIUM-** Risk judged as typical. Try to reduce risk if practical.	Wear proper footwear and life jacket Check Tank Levels. Test Overflow Alarm(s). Ensure spill clean-up materials are nearby. Complete Permit to Work. Complete Bunkering Checklist.	Captain	**-LOW-** Risk judged as lower than typical, no further action needed.
Hose Connection	Slips, Trips, and Falls Struck by Hose Pinch Points Spill Fall Overboard	**-MEDIUM-** Risk judged as typical. Try to reduce risk if practical.	Wear proper personal protective equipment Ensure personnel have completed *Fuel Oil Transfer Training*. New gaskets used on connections with hose pressure tested prior to use.	Deckhand	**-LOW-** Risk judged as lower than typical, no further action needed.
Bunkering	Spill Fume Inhalation Fire / Explosion Skin Exposure Fall Overboard	**-HIGH-** Risk judged as greater than typical. **DO NOT** proceed without permission from office	Wear proper footwear and life jacket Use respiratory protection, review SDS. No smoking, keep Fire Extinguisher nearby. Ensure spill clean-up materials are nearby. Check hose and connection for leaks. Ensure attendant is at hose at all times during transfer. No Smoking or ignition sources present	Deckhand / Captain	**-MEDIUM-** Risk judged as typical. Try to reduce risk if practical.
Hose Disconnection	Slips, Trips and Falls Exposure to Thinner Fall Overboard	**-MEDIUM-** Risk judged as typical. Try to reduce risk if practical.	Wear proper footwear and life jacket Use respiratory protection, review SDS Ensure hose is completely drained and capped before removal.	Deckhand	**-LOW-** Risk judged as lower than typical, no further action needed.

PPE Required — **Combine and list all PPE required for this job below.** — **REFER THE PPE PROCEDURE FOR MORE INFORMATION**

	Hard Hat		**Gloves – Type: General Leather**	**X**	**Face Shield**		**Ear Plugs/Muffs**				
	Safety Glasses		**Steel Toe Boots**		**Acid Suit**						

I have read the above JSA and understand all of the hazards associated with the job and the control which shall be in place prior to starting the job. If any conditions within this JSA changes, I am responsible to STOP THE JOB and notify the Captain immediately.

NAME / POSITION	SIGNATURE

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