

Questionnaire

- 1.01 Name the major vessels in the LO removal and LO recovery train.
- 1.02 What is the normal pressure drop in LBA No. 1 and LBA No. 2?
- 1.03 What is the purpose of the blue room drain?
- 1.04 What do you do when the LO still level control valve fails?
- 1.05 How is LO condensate cooled prior to entering the cold wash oil decanter?
- 1.06 What are the toxic chemicals in the LO facility?
- 1.07 What are the potentially carcinogenic chemicals handled in the LO facility.
- 1.08 What do you do when one of the LBA pumps fails?

(Questionnaire, cont.)

- 1.09 How do you drain good oil from the muck tank?
- 1.10 Use attached block diagram "A" to show the flow of process wash oil and name the vessels.
- 1.11 What do you do when the level is too low or too high in the cold decanter sump?
- 1.12 Do you report defects in the ventilation system in the LO still? building?
- 1.13 What are the lock-out procedures?
- 1.14 What do you do when the level is too low or too high in the skimmer sump?
- 1.15 What is the normal pressure difference over the LO still?
- 1.16 What is the function of the dephlegmator (vapor to oil heat exchanger)?

(Questionnaire, cont.)

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- 1.17 How do you take one wash oil cooler out of service for cleaning?
- 1.18 Where are the hand held fire extinguishers in the LO still building located?
- 1.19 What is the purpose of the safety material data sheets?
- 1.20 How do you adjust the overflow from the retention basin?
- 1.21 How do you adjust the wash oil level in the hot wash oil decanter?
- 1.22 Describe the function of the LO intercept sump.
- 1.23 When do you flush the mill water strainer at the mill water booster pump?
- 1.24 Where is the respirator available and how do you obtain it?
- 1.25 Use attached block diagram "B" to show the flow of the LO and name the vessels.
- 1.26 How do you confine a LO spill?

(Questionnaire, cont.)

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- 1.27 Name at least two (2) typical warning signs in the LO facility.
- 1.28 What kind of respirator are you supposed to have available while working in the LO facility?
- 1.29 How much of the Naico additive is added to the fresh wash oil delivery?
- 1.30 Have you read the operating manual?
- 1.31 How much water is added to the hot wash oil decanter?
- 1.32 How do you use the LBA drain pump for handling of floor spills and run-offs?
- 1.33 How do you adjust the level in the cold wash oil decanter?
- 1.34 What do you do when the level is too low or too high in the LO intercept sump?
- 1.35 How do you load fresh wash oil into the wash oil storage tank?

(Questionnaire, cont.)

- 1.36 How often should the respirator or chemical cartridges be replaced?
- 1.37 What is the purpose of warning labels placed on vessels and tanks? Write down the contents of one label of your choice.
- 1.38 How do you confine a wash oil spill?
- 1.39 What do you do when the level is too low or too high in the French drain?
- 1.40 How do you check the oil separator at the cold decanter sump?
- 1.41 How do you check the wash oil level in the hot decanter?
- 1.42 What is the normal level in the bottom of LBA No. 1 and LBA No. 2?
- 1.43 What do you do if the stripping steam supply is interrupted?
- 1.44 What do you do when the cold wash oil pump fails?

(Questionnaire, cont.)

- 1.45 Do you report broken lights anywhere in the LO facility?
- 1.46 What do you do in case of a fire in the LO facility? What is the emergency telephone number?
- 1.47 Describe how water is drained from the muck tank.
- 1.48 How do you check the wash oil level in the cold decanter?
- 1.49 How do you drain water (condensate) from LBA No. 1 and LBA No. 2?
- 1.50 What do you do when the hot wash oil pump fails?
- 1.51 Where is the escape breathing apparatus located?
- 1.52 What do you do when the wash oil coolers are not cooling properly?
- 1.53 What do you do when the pressure difference over the LO still is 6 psi or more?

(Questionnaire, cont.)

- 1.54 How do you control stripping steam flow to the LO still?
- 1.55 What are the flammable process materials in the LO facility?
- 1.56 List the steps for shut-down of the entire LO facility.
- 1.57 How much is the reportable quantity (RQ) of light oil?
- 1.58 What precautions are needed in loading the LO into a truck?
- 1.59 How much is the reportable quantity (RQ) of: (a) benzolized and (b) debenzolized wash oil?
- 1.60 List the steps for start-up of the entire LO facility.
- 1.61 What are the hazards resulting from the loss of wash feed into the LO still?
- 1.62 Name at least three (3) material safety data sheets pertaining to the LO facility and where do you find them?

(Questionnaire, cont.)

- 1.63 How do you recognize a malfunctioning level control valve?
- 1.64 Where do you find the pre-start-up review procedures?
- 1.65 What are the hazards from dumping process materials into sewers?
- 1.66 How do you prepare the LBA for steam-out?
- 1.67 Who is responsible for updating the lock-out procedures?
- 1.68 Where do you find essential information about exposure control, first aid, and fire fighting guidelines?
- 1.69 Describe the BEC venting of the cold wash oil decanter.
- 1.70 Where do you find information about product data for LO, COG, process wash, COG condensate and Nalco additives?
- 1.71 List at least three (3) kinds of flammable liquids or gases handled within the LO facility.

(Questionnaire, cont.)

- 1.72 List the typical personal protective gear for normal operation.
- 1.73 What is the OSHA exposure limit for benzene?
- 1.74 What is the contents of "Instrumentation Data Base"?
- 1.75 How much are the reportable quantities (RQ) of benzene released into the environment?

(Questionnaire, cont.)

- 2.01 What does "temporary operation of the LBA" mean?
- 2.02 What is the risk resulting from malfunctioning level alarms at the French drain?
- 2.03 How do you report observed malfunctions of equipment (pumps, instrumentation, alarm lights, control panels, indicators)?
- 2.04 Where do you find information about product data for LO, COG, process wash oil, COG condensate and Nalco additives?
- 2.05 Who is responsible for updating the lock-out procedures?
- 2.06 How much is the reportable quantity (RQ) of: (a) benzolized and (b) debenzolized wash oil?
- 2.07 What is the risk resulting from a malfunctioning level switch at the LO intercept sump?
- 2.08 List the steps for shut-down of the entire LO facility.

(Questionnaire, cont.)

- 2.09 How much is the reportable quantity (RQ) of light oil?
- 2.10 List the steps for start-up of the entire LO facility.
- 2.11 How do you prepare the LBA for steam-out?
- 2.12 What is the exposure limit for benzene by OSHA in ppm?
- 2.13 How do you ensure that data logs and daily logs are filled out properly?
- 2.14 What are the hazards from dumping process materials into sewers?
- 2.15 What is the risk resulting from malfunctioning level alarms at the skimmer sump?
- 2.16 How do you react in case of observed substance abuse (alcohol, drugs)?
- 2.17 List the typical personal protective gear for normal operation.

(Questionnaire, cont.)

- 2.18 Where do you find the specification for a particular instrument, for instance PVS-327?
- 2.19 What do you do when access (road, stairs, ladders) are blocked or restricted?
- 2.20 What are the hazards resulting from a plugged flame arrestor?
- 2.21 Can you operate the LO still in a temporary mode?
- 2.22 List the process fluids collected in:
- LO intercept sump
 - Skimmer sump
 - Cold decanter sump
 - Retention basin
 - Frenchdrain
- 2.23 List at least three (3) kinds of flammable liquids or gases handled within the LO facility.

(Questionnaire, cont.)

- 2.24 What are the first response measures before specially trained personnel arrive in case of:
- light oil overexposure
 - wash oil overexposure
 - COG overexposure
- 2.25 Where are the electrical disconnects for process pumps in the LBA still area located?
- 2.26 How do you interpret a line number on a P&I diagram?
- 2.27 How do you prepare vessels (confined areas) for entry?
- 2.28 What are the hazards resulting from the loss of wash feed into the LO still?
- 2.29 What is the risk resulting from malfunctioning level alarms at the LO storage tank?
- 2.30 Where do you find essential information about exposure control, first aid, and fire fighting guidelines?
- 2.31 Where do you find the pre-start-up review procedures?

(Questionnaire, cont.)

- 2.32 What are the basic rules of sanitation in the work place?
- 2.33 Name at least three (3) material safety data sheets pertaining to the LO facility.
- 2.34 What is the risk resulting from malfunctioning level alarms at the cold decanter sump?
- 2.35 List the causes for emergency operation.
- 2.36 What is the purpose of preventive maintenance?
- 2.37 Describe the BEC venting of the cold wash oil decanter.
- 2.38 Outline the procedure for temporary operation of wash oil cooling.
- 2.39 What does "emergency operation" of the LO facility mean?
- 2.40 What precautions are needed in loading the LO into a truck?
- 2.41 What is the telephone number to report emergencies (medical, fire)?

(Questionnaire, cont.)

- 2.42 How do you recognize a malfunctioning level control valve?
- 2.43 List the typical personal protective gear for special operation, such as spill control.
- 2.44 Where are the electrical disconnects located for process pumps in the LBA room?
- 2.45 What are the public liability risks from releasing LO or wash into the environment?
- 2.46 Describe the steps for temporary operation of the dephlegmator and condenser?
- 2.47 Write down the steps for start-up of the LBA facility after scrubbershutdown.
- 2.48 What does "LIC-123" on P&I diagrams mean?
- 2.49 Write down the steps for start-up of the LBA facility after a scrubbershutdown.
- 2.50 Where do you find the specification for a particular piping valve?

(Questionnaire, cont.)

- 2.51 List all three (3) kinds of flammable liquids or gases handled within the LO facility.
- 2.52 List the typical personal protective gear for normal operation.
- 2.53 What is the OSHA exposure limit for benzene?
- 2.54 What is the contents of "Instrumentation Data Base"?
- 2.55 How much are the reportable quantities (RQ) of benzene released into the environment?

(Questionnaire, cont.)

- 3.01 What are the basic rules of sanitation in the work place?
- 3.02 What kind of respirator are you supposed to have available while working in the LO facility?
- 3.03 How do you select the correct spare part for a pump?
- 3.04 Who is authorized to sign the hot work permit?
- 3.05 What do you do when you notice a light oil odor in the assigned work area?
- 3.06 What is preventive maintenance?
- 3.07 Where is the respirator available and how do you obtain it?
- 3.08 How do you confine a LO spill?
- 3.09 Name at least three (3) flammable process fluids that you will encounter in the LO facility.

(Questionnaire, cont.)

- 3.10 Are you normally allowed to do hot work in the LO still building?
- 3.11 Where is the escape breathing apparatus located?
- 3.12 Outline the procedure for pump alignment.
- 3.13 Where are the emergency telephone numbers for fire, injury, or a major spill in the LO facility?
- 3.14 What are the potentially carcinogenic chemicals handled in the LO facility.
- 3.15 How often should the respirator or chemical cartridges be replaced?
- 3.16 Where do you find written procedures for vessel entry?
- 3.17 What is the purpose of the safety material data sheets?
- 3.18 Where do you find information about process valving material?

(Questionnaire, cont.)

- 3.19 How do you interpret a line number on a P&I diagram?
- 3.20 List the typical personal protective gear for normal operation.
- 3.21 Name at least three (3) hazardous process media in the LO facility.
- 3.22 Name at least two (2) typical warning signs in the LO facility.
- 3.23 Where do you obtain material safety data sheets (MSDS)?
- 3.24 Are you ever allowed to use a torch for cutting bolts without a hot work permit?
- 3.25 List the typical personal protective gear for special operation, such as spill control.
- 3.26 Where do you find essential information about exposure control, first aid, and fire fighting guidelines?
- 3.27 What are the toxic chemicals in the LO facility?

(Questionnaire, cont.)

- 3.28 Where do you find information about product data for LO, COG, process wash oil, COG condensate and Nalco additives?
- 3.29 What are the flammable process materials in the LO facility?
- 3.30 What are the lock-out procedures?
- 3.31 List at least three (3) kinds of flammable liquids or gases handled within the LO facility.
- 3.32 List the typical personal protective gear for normal operation.
- 3.33 What is the OSHA exposure limit for benzene?
- 3.34 What is the contents of "Instrumentation Data Base"?
- 3.35 How much are the reportable quantities (RQ) of benzene released into the environment?