

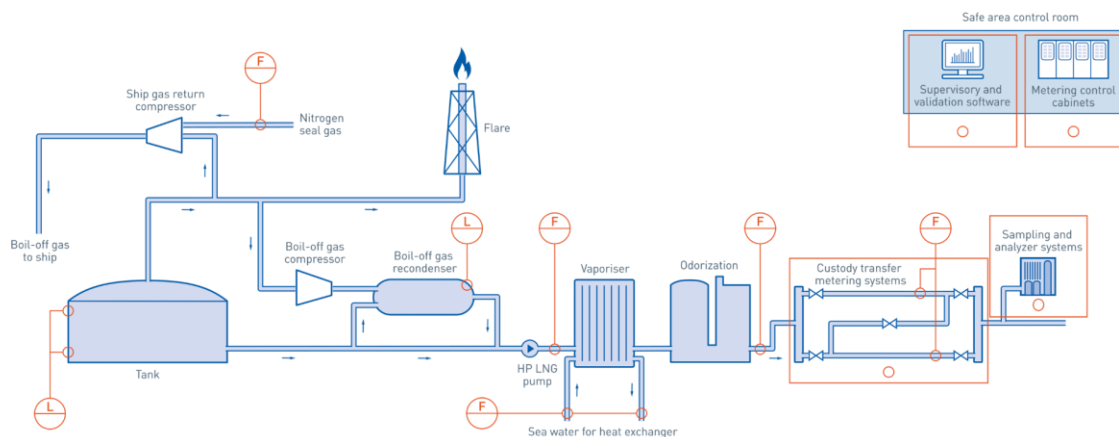
Project Design Phase-II Data Flow Diagram & User Stories

Date	14 October 2022
Team ID	PNT2022TMID03488
Project Name	Project - Hazardous Area Monitoring for Industrial plant power by lot
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

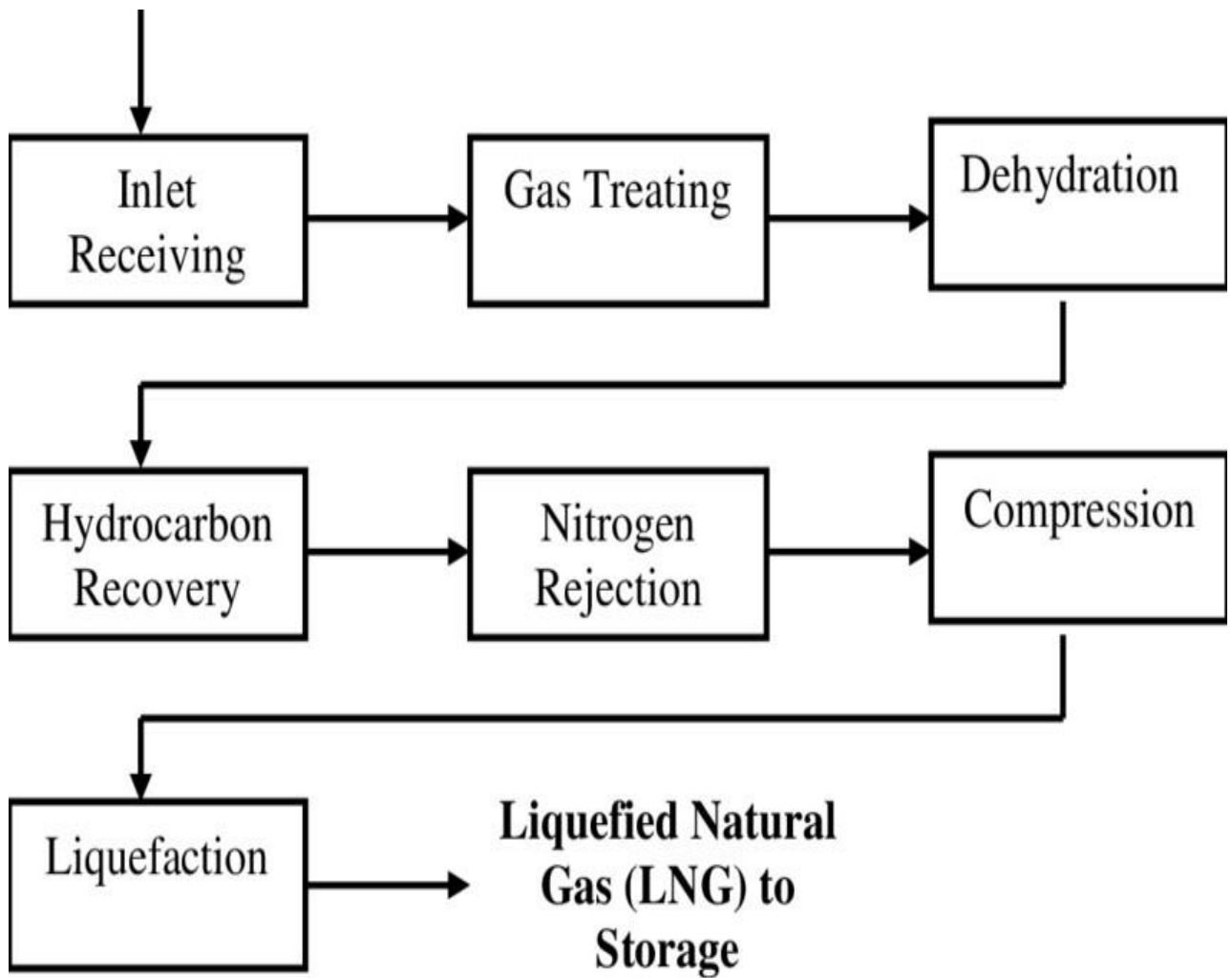
Flow Diagram:



Converting LNG to natural gas

1. At the receiving terminal the LNG is stored within very large and extremely well insulated tanks.
2. Custody transfer measurement systems on the delivered LNG and the boil off gas returned to the ship's tanks to provide accurate accounting data on the received fuel into the terminal.
3. Once the tanker has left, any boil off gas is compressed and re-liquefied in a condenser, or alternatively can be flared off, via a flowmeter.
4. Stationary device, for installation at any location without process interruption or need to cut pipes.
 - Up to +200°C / +392°F.
 - Robust stainless steel sensor rail for pipes DN15...4000 / ½...160".

Block Diagram:



The project Stories:

Sensors and Conditioning electronics power consumption for continuous operation				
Phase	Device	Consumption (mW)	Total (mW)	
Measurement/TX	Main Board	15	216.0	
	Catalytic Sensor	200	216.0	
	Electrochemical Sensors	0.66	216.0	
	Radio Module (1 TX every 120 s)	0.3	216.0	
Average cycle power consumption		216.0	mW	
Battery capacity		7.4	WH	
Battery Lifetime		34.3	h	

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration		As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-3	As a user, I can register for the application through facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-3
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-4
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-5
	Dashboard					
Customer (Web user)			As a user,i can register in the application through Google	I can register & access the Google Login	High	sprint-6
Customer Care Executive						
Administrator						