Hazard Analysis 2341373

Introduction:

The necessary safety techniques that will work in our system would be the HAZOP analysis that revolves around the probability of the events that might happened for each possible failure within our system and utilizes guide words to create clarity and systematic tables

It can be seen from the first example that if inputting the correct values then the system would work and be safe unlike from my second run where if inputting the incorrect values then the system would be unsafe.

System	Sub-system	Nodes
Flight Fuel System	Flight One	1. Docks in the airport in Europe 2. Inputs the necessary fuel 3. Systems Checks if Safe 4. If ON, the flight is safe and is allowed to fly to Asia
	Flight Two	1. Flies to an airport in Asia 2. Docks in the airport in Asia 3. Inputs the necessary fuel 4. Systems Checks if Safe 5. If ON, the flight is safe and is allowed to fly to Asia 6.
	Flight Three	1. Flies to an airport in Oceania 2. Docks in the airport in Asia 3. Inputs the necessary fuel 4. Systems Checks if Safe 5. If ON, the flight is safe and is allowed to fly to America

		6. Finishes flying in America.

System	Sub System	Guide Word	Possible Causes	Consequences	Actions Required	Actions Assigned to
Flight Fuel System	Fuel Status Gauge	NO	Erratic Gauge Behavior	Lack of sensors which shuts down the system		Engineer
		More	Gauge Stuck on Empty	Damage to the cables	Inspect the Fuel Gauge	Engineer
		Less	Incorrect Fuel Gauge Readings	Incorrect readings	Inspect the Fuel Gauge	Engineer

Conclusion

In conclusion I have demonstrated the necessary safety technique called HAZOP and the system demonstrated that the flight system when inputting the correct values would make the system safe. This suggests that the greatest danger is the possibility of inputting the wrong values into the system which makes the system unsafe.