Power Generating Station Process logic

Loads:

1. Industrial
2. Airport
3. Residential
4. City
5. Station light
6. Track A (inner)
7. Track B (outer)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***No. Loads*** | ***Freq*** | ***LED*** | ***Motor*** | ***Pump***  ***State*** | ***Smoke*** | ***Siren*** | ***Voltage*** |
| 0 | 52.00 | Red | High | Remain: Low | Off | On | 11 kV |
| 1 | 51.20 | Yellow | High | Remain: Low | High | On | 11 kV |
| 2 | 50.80 | Yellow | High | Remain: Low | High | Off | 11 kV |
| 3 | 50.40 | Green | High | Remain: Low | High | Off | 11 kV |
| **4** | **50.00** | **Green** | **High** | **Low** | **High** | **Off** | 11 kV |
| 5 | 49.40 | Green | High | Remain: Low | High | Off | 11 kV |
| 6 | 49.80 | Yellow | Low | Change: High | Low | On | 11 kV |
| 7 | 48.20 | Red | Low | Change: High | Low | On | 11 kV |
| - | 0 | Red | Off | - | off | On | 0 kV |
| 6 | 50.00 | Green | High | High | High | Off | 11 kV |
| 7 | 49.80 | Yellow | High | High | High | Off | 11 kV |

**System cut off all power, if load increase to 7 and operator fail to change the pump speed from low to high after 1 minute**

Base load:

Airport, City, Industrial, Track A

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pump speed** | **Load No** | **Moto speed** | **smoke** | **siren** | **Frequency** | **Voltage** |
| High | 0 | High | High | ON | 52.00HZ | 11.0KV |
| 1 | High | High | ON | 51.20HZ | 11.0KV |
| 2 | High | High | OFF | 50.80HZ | 11.0KV |
| 3 | High | High | OFF | 50.40HZ | 11.0KV |
| 4 | High | High | OFF | 50.00HZ | 11.0KV |
| 5 | High | High | OFF | 50.00HZ | 11.0KV |
| 6 | High | High | OFF | 50.00HZ | 11.0KV |
| 7 | High | High | OFF | 49.80HZ | 11.0KV |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pump speed** | **Load No** | **Moto speed** | **smoke** | **siren** | **Frequency** | **Voltage** |
| LOW | 0 | High | High | ON | 52.00HZ | 11.0KV |
| 1 | High | High | ON | 51.20HZ | 11.0KV |
| 2 | High | High | OFF | 50.80HZ | 11.0KV |
| 3 | High | High | OFF | 50.40HZ | 11.0KV |
| 4 | High | High | OFF | 50.00HZ | 11.0KV |
| 5 | High | High | OFF | 49.80HZ | 11.0KV |
| 6 | Low | Low | On | 49.40HZ | 11.0KV |
| 7 | Low | Low | On | 49.40HZ | 11.0KV |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pump speed** | **Load No** | **Moto speed** | **smoke** | **siren** | **Frequency** | **Voltage** |
| OFF | 0 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 1 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 2 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 3 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 4 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 5 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 6 | OFF | OFF | OFF | 0.0HZ | 0.0KV |
| 7 | OFF | OFF | OFF | 0.0HZ | 0.0KV |