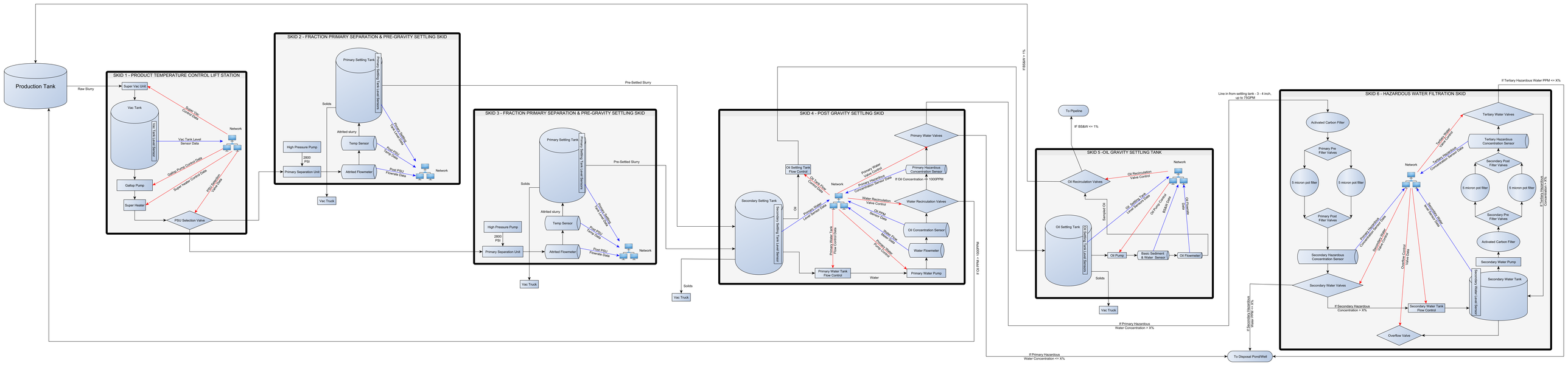
Production Tank
Raw Slurry
SKID 1 - PRODUCT TEMPERATURE CONTROL LIFT STATION
Super Vac Unit
Super Vac Control Data
Vac Tank
Vac Tank Level Sensor
Vac Tank Level Sensor Data
Network
Gallop Pump Control Data
Super heater Control Data
PSU Selection Valve Data
Gallop Pump
Super Heater
PSU Selection Valve
SKID 2 - FRACTION PRIMARY SEPARATION & PRE-GRAVITY SETTLING SKID
Primary Settling Tank
Primary Settling Tank Level Sensors
Flow Settling Tank Level Data
Solids
Attrited slurry
Temp Sensor
Post PSU Temp Data
High Pressure Pump
2800 PSI
Primary Separation Unit
Attrited Flowmeter
Post PSU Flowmeter Data
Network
Vac Truck
Pre-Settled Slurry
SKID 3 - FRACTION PRIMARY SEPARATION & PRE-GRAVITY SETTLING SKID
Primary Settling Tank
Primary Settling Tank Level Sensors
Flow Settling Tank Level Data
Solids
Pre-Settled Slurry
Attrited slurry
Temp Sensor
Post PSU Temp Data
High Pressure Pump
2800 PSI
Primary Separation Unit
Attrited Flowmeter
Post PSU Flowmeter Data
Network
Vac Truck
Solids
Vac Truck
SKID 4 - POST GRAVITY SETTLING SKID
Primary Water Valves
Oil Settling Tank Flow Control
Oil Tank Flow Control Data
Primary Water Valve Control
Primary Hazardous Concentration Sensor
Primary Hazardous Concentration Sensor Data
If Oil Concentration <= 1000PPM
Network
Secondary Settling Tank
Secondary Settling Tank Level Sensor
Oil
Primary Water Tank Level Sensor Data
Water Recirculation Valve Control
Water Recirculation Valves
Oil PSU Sensor Data
Oil Concentration Sensor
Water Flow Sensor Data
Water Flow Pump Control
Water Flowmeter
Primary Water Tank Flow Control Data
Primary Water Tank Flow Control
Water
Primary Water Pump
If BS&W > 1%
Pump 4000PPM - Total Oil
To Pipeline
IF BS&W <= 1%
SKID 5 -OIL GRAVITY SETTLING TANK
Oil Recirculation Valves
Oil Recirculation Valve Control
Network
Oil Settling Tank
Oil Settling Tank Level Sensors
Oil Settling Tank Level Sensor Data
Oil Pump Control
BS&W Data
Oil Flowrate Data
Separated Oil
Oil Pump
Basic Sediment & Water Sensor
Oil Flowmeter
Solids
Vac Truck
If Primary Hazardous Water Concentration > X%
Line in from settling tank - 3 - 4 inch, up to 75GPM
SKID 6 - HAZARDOUS WATER FILTRATION SKID
If Tertiary Hazardous Water PPM <= X%
Activated Carbon Filter
Primary Pre Filter Valves
5 micron pot filter
5 micron pot filter
Primary Post Filter Valves
Secondary Hazardous Concentration Sensor
Secondary Water Valves
Tertiary Water Valves
Tertiary Filter Valve Control
Tertiary Hazardous Concentration Sensor
Secondary Post Filter Valves
Tertiary Hazardous Concentration Sensor Data
Network
5 micron pot filter
5 micron pot filter
Secondary Pre Filter Valves
Secondary Hazardous Concentration Sensor Data
Secondary Filter Valve Control
Secondary Filter Valve Data
Overflow Control Valve Data
Activated Carbon Filter
Secondary Water Pump
Secondary Water Tank
Secondary Water Tank Level Sensor
If Tertiary Hazardous Concentration > X%
If Secondary Hazardous Water PPM > X%
If Secondary Hazardous Concentration > X%
Secondary Water Tank Flow Control
Overflow Valve
If Primary Hazardous Water Concentration <= X%
To Disposal Pond/Well