



USN Propellant Annealing Plant

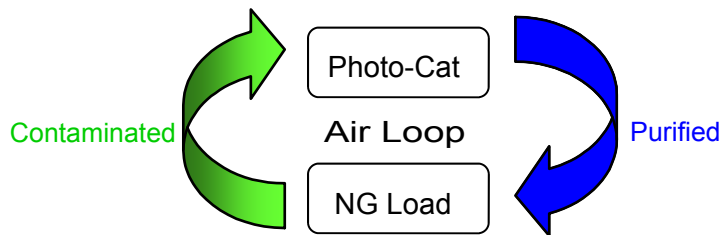
Problem:

- Anneal Solid Rocket Propellant
- Prevent Nitroglycerine (NG) VOC Air Emission
- Prevent Health & Explosion Hazards

Design Challenge:

- \$5,000,000 R&D Budget Exhausted– No solution
- High Air Heating Load
- Process 10,000 cfm & 2.2 kg/hr of NG

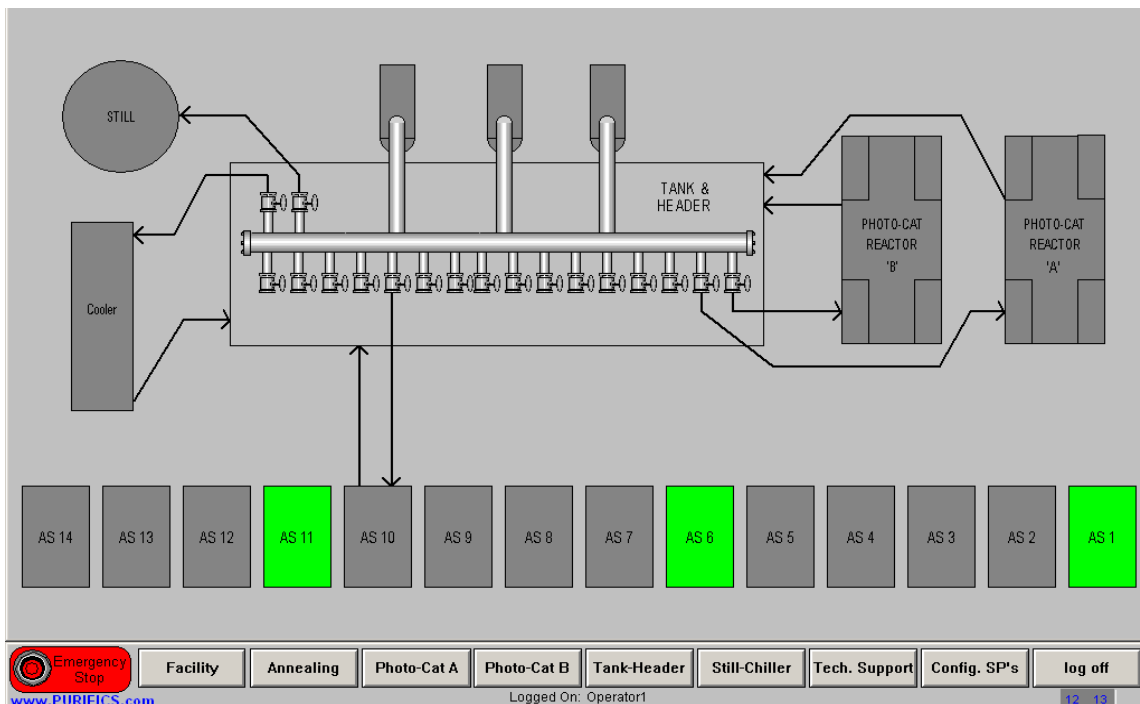
Closed Loop Process:



Solution:

- 2 x 50kW Photo-Cat® Systems
- 14 Annealing Stations
- 53 m3 Water Holding Tank
- 4,000 l/min Pump and Distribution Manifold
- Energy Management System
- Remote Control and Auto QA/QC
- Installed 2002 on time and budget

Process Flow:



Unique Technologies...Achieve Solutions...Eliminate Problems

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Benefits:

- Pollution Free Facility: Closed Loop
- Plug & Play Installation
- Provided Equipment, Controls & Design Engineering
- Photo-Cat is Best Available Technology
- Air & Water Permits Eliminated
- Full Product Recovery as Acid - No Waste Generated



Photo-Cat® is protected by one or more of the following patents: US Patent #5,462,674 / #5,554,300 / #5,589,078 / #6,136,203 / #6,215,126B1 / #6,398,971B1 / #7,008,473B2. Other domestic and foreign patents are pending. Purifics® and Photo-Cat® are registered trademarks.

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