



TRUCK OFF-LOADING

Application Sheet #4

CUSTOMER **VALUE**

Prevents unplanned
shut-downs, and failure
of downstream
equipment.

SITUATION

- Customer has disposal facilities from NE British Columbia, through Alberta, and into North Dakota. These facilities are used for truck offloading a mixture of water, oil and emulsions, where scale build up is a major concern.
- Excessive build up causes unplanned shut downs and failure of down stream equipment.

SOLUTION

- Customer installed Sirius' AC Gemini Injection systems at new and existing locations, with full control of the chemical flow rates through their PLC.
- The chemical program in place calls for a Scale Inhibitor concentration of 120 ppm to mitigate the build up.
- With an Analog Input tied into the Gemini Controller, the PLC is programmed to inject ranges of 25, 50, 75 or 100% whether one, two, three or four trucks are offloading.

- By using a Digital Input tied into the Gemini Controller the chemical pump is only enabled when required.

RESULTS

- The 700:1 turndown on the Comet Pump allows the customer to handle full capacity of chemical injection without mechanical adjustments.
- Remote capabilities of the Gemini Controller allow the customer to control chemical injection with the click of a button.



www.siriuscontrols.com

PROFITABLE ENVIRONMENTAL SOLUTIONS