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To: All IPS RMR Personnel

Date: October 4, 2007

De-watering 24 Inch Pipeline

Incident: A 24" pipeline was being de-watered by using compressed air behind a poly pig to displace water in the line. The pig became lodged in the line with 130 psig air behind it. When the pig broke free it caused a pressure spike of over 300 psig downstream at the 4" valve, swaged down to a 3" hose connecting point. The surge of water pressure caused one of the 3" hoses to part and cause extensive damage to the 1 ton pickup that was parked within 20' of the de-watering point.

Findings: A 4" valve had been swaged down to a 3" hose rated to 600 psig. There were no whip checks in place at the time of the incident.

The pickup was parked less than 20' from the 4" valve coming off the 24" pipeline.

The hose that parted had been recently repaired after being run over.

Root Cause: Swaging down to the 3" hoses and connections. Possible prior damage to the parted hose.

Actions:

1. De-watering connections and hoses should be swaged up to a larger diameter than hose connecting point.
2. Vehicles should be parked a safe distant from the de-watering hoses and connecting points.
3. Whip checks need to be installed at all hose connections whenever possible.

"Remember, We Are Our Brother and Sisters Keeper"!