



ON-LINE ROBOTIC CLEANING AND INSPECTION SERVICES.

Phone: (724) 444-4217
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SCANTRON ROBOTICS
2593 Lakewood Road
Pittsburgh, PA 15044

From: Rusty Goeller - SCANTRON ROBOTICS US

Date: May, 2009

Re: Pump A3 Video Inspection

Dear (facility owner),

A video camera was lowered into the pump casing to inspect the seismic retention ring below pump A3. One inspection was performed prior to cleaning, a second inspection was performed after dredging of sediment. The first video inspection identified the upper ring, guides above the ring and the supports below the ring. The camera was on the inside of the ring looking outward in most cases. The camera was moved to the center of the ring and lowered to see there the two support plates cross on centerline below where the pump intake screen would be located. 1" of the supports were visible above the sediment, the supports were shown as 9" tall on the supplied drawings. Therefore, there was 8" of sediment immediately below the pump. The camera was also lowered into the sediment to get a sense of how dense the sediment was. The camera is about 3 inches in diameter with a hemispherical end. It pushed into the sediment 1.5 inches under its own weight of about 15 pounds.

The second inspection was requested immediately after dredging (with water jet) was suspended. There was no settle time for the water and the camera visibility was reduced to 1/2". Only once briefly could any structure been seen on video. The post dredge camera survey was unable to produce results due to cloudy water, but the sonar survey showed were the material that was dredged came from when compared with the pre dredge sonar survey. The sonar data will be in another report.

Three DVD's and Pilot Notes are included with these observations.

Rusty Goeller

V.P. General Manager

Scantron Robotics USA/CA

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From: Rusty Goeller - SCANTRON ROBOTICS US

Date: May, 2009

Re: Pump A3 Video Inspection - Page 2 of 3

Date	Time	DVD	Tape	Sonar	HIDIPIR	Comments
5/13/2009	9:16:00	1	1			Deploy camera into pump casing A3
	9:27:30					Camera just below water level against south side of casing. visibility 6"
	9:32:15					Camera at ceiling of chamber, at 540'
	9:35:08					Camera 42' below flange on south side
	9 36:44					Camera 43' below flange
	9:50:02					44.5' below flange, move to East side of casing. see East guide
	9:55:42					Move to south east guide
	10:04:27					Lower camera 4" on south side and look under top part of ring
	10:06.41					See support below ring, under guide on East side
	10:10:02					See guide on north west, verify no support below
	10:14:26					North side, see guide and support below ring
	10 18:01					See guide on North East side of ring
	10:22:35					See East guide
	10 23:18	1	1			End Tape 1
	10:24:57	2	2			Start Tape 2, east side of ring, follow support down on inside face south on centerline of ring, looking at supports below ring, see 1" of support above sediment, this means 8" of sediment below pump intake screen
	10:29:04					
	10:30:17					Move to south side with camera inside ring
	10:37:12					Lower camera into sediment to see how firm it is, this is just off center inside ring, south west of were the supports cross. camera sank 1.5" into sediment
	10:43:34					Complete inspection remove camera



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Date: May, 2009

Re: Pump A3 Video Inspection - Page 3 of 3

Date	Time	DVD	Tape	Sonar	HIDIPIR	Comments
5/19/2009	15:03:00	3	3			Insert camera into pump casing A3 RHRSW pit EECW pump
	15:07:25					Camera on south side of casing, 42 feet below flange
	15:10:22					Lower to 43'
	15:13:13					Lower to 44'
	15:14:37					Lower to 45'
	15:16:45					Lower to 46'
	15:33:02					lower to 47 feet then raise back to 46.5'
	15:48:20					centerline of pump casing, 46' 10"
	15:45:00					move camera to west side of pump casing, 45.5 feet below flange, ring was visible, visibility 1/2 inch
	16:00:00	3	3			end tape 3

Disc 1

1 Hour and 25 minutes Start Middle End

Disc 2

25.5 minutes Start Middle End

Disc 3

44.5 minutes Start Middle End