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Schedule

Tube Pulls - begin 5/29 10 days to 2 weeks
also complete ECT & plugging

Meeting 1st or 2nd week of June

5/27/97 Indian Point 2 - Inspection Results 3:00pm

Coeco indication found at 6th TSP (HL) & one on CI

90% Complete inspections

98 Confirmed Indications (tubes)

SG #22 > 1%

ODSCG at TSP

35 tubes confirmed ^{w/Coeco} (+ft activity ongoing)

In situ pressure testing possible

All indications are in dent or on edge of dent

all TSP one
limited to
some degree

ODSCG at Tubesheet cruce

(Partially rolled 2 1/4 inches)

89% max depth

* 1 axial crack above roll transition ~ 10" long

- (Pressure test candidate)
- Can't meet rolling criteria
- Coeco/babbitt used lost outage
- Previous indication (lost outage) review

ITEM #

6

identical MAI in babbitt/Coeco

9) X

Indian Point 2 [cont]

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ODSCC - sludge pipe - HL & CL side

- they think most will be reclassified as pits
- if pitting (tPt) then they will dye w/ borpin (20% sample of indications \rightarrow tPt inspected ~~to~~ to determine if crack)

- If any cracklike, they will inspect 100% of indications with tPt

* - one axial crack identified

PWSOC at roll transition (F* approved)

855 indications

308/855 are new \rightarrow all in original expansive transitions

Explosive Plug (skirt) - port missing W Vendor
CL

• 56 #23

• Comma visual inspection

• alloy 600

• Installed in '78

• Industry Experience?

• 42 left in CL + 1 drilled out

• If they can't find a piece, they can do a root cause

• Fracture surface

* • Developing a general action plan for when to replace these

* Fracture? Origami \rightarrow 4 possible

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Indian Point 2 [cont]

PIP / PAP

2 leaking PIP } Bore Rings
5 leaking PAP }

- Will be drilled out and replaced with 690 mechanical plugs (PIP/PAP & original plug will be removed)

Secondary Side Inspection

- One flow slot in #23 SG 2nd TSP, N3 R C which appears to be hunglassing and touching (looked at in '91 → only hunglassed but not closed)
 - Flow-glassing previously seen, but not touching
 - Expanded into other two SGs as a result
 - 6th & 10th TSP inspected in 2 SGs *
 - Center lobe / wedge lobe inspected
 - nothing similar seen
- low frequency eddy current examination being performed to further assess condition of TSP
- May do some preventive plugging.

~~WBends~~

- A/B Wear indications - 4 (max is 30%)
R16 | R37

* Low Row WBends - ongoing - nothing reported to date

Indian Point 2 [cont]

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* Cocco / TPE comparison

- 124 Intersections
- Bird P/S resolution

- 95 data - reevaluated Cocco with puns NAO
 - deposits
 - Sludge pile indications
 - TSP NAO

Cocco

- 1 ind. at TSP
- 5 Sludge Pile indications

TPE

No reported indications

* In situ Testing - Plans / Schedule

- evaluating tubes
- In situ 5/29 - 6/2

Selection criteria (W & EARI developed)

Area .43"

Cue 200°

Eddy Current

Complete by 6/2

Narrowways

Installed by 6/6

Followup Phonecall - Monday 6/2/97

end of 5/27/97

Catawba [Oisp] o.s.

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o.s.

RPC - a majority of them (~~40%~~ Bobbin) 1984 bobbin preference M12-18

Bobbin indications NQ1, IO1, AD1, ODI
IDI - TD Indication
ADI - Absolute Drift

NQ1, ID1, AD1 → RPC Tested (3 coil, 115)
OD1 →

OD1

- ① Review previous history → ≈ 2 outages back
- ② If ODI is not confirmed in history, the bobbin signal is compared to other ODI and dispositioned based on that (only a sample are RPC tested)

*

- # ODI's - No Previous history
- % RPC Tested
- % RPC Confirmed

} Catawba will call Phil with data

need to be
No Further calls made

6/2/97 IP2 - SG Inspection Results

2:00pm

SUMMARY

4 SGs 100% HL COMPLETE
 *243 100% CL COMPLETE
 *184 CL ONGOING

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IP2 [cont]

RESULTS

Plugging

* 21 19 Plugging

* 22 49

* 23 26

* 24 19

- Sludgepile

- ANB Wear

- Crevice region

- dented TSP

* 22 TSP2 HR - AXIAL ID AT SEVERLY DENTED TUBE

* 23 TSP6 CL - AXIAL OD " " " "

640 CECCO - RESTRICTED

610 TPT - SAW IT

* SWIRGE PILE - 2 SMALL AXIAL CRACKS (ONE MORE NEW FOR IP2 THAN LAST CALL) HL

INSITU

↳ HOW ASSESS STRUCTURAL / LEAKAGE INTEGRITY?

4 TUBES SELECTED SO FAR

* DON'T MEET SHE CRITERIA

* IN TUBESHEET - all indications

CRACKLIKE, AXIAL, CREVICE REGION ABOVE ROLL DEPTH PROFILING - 10", ~~10"~~

* They are not inspecting any indications in sludgepile CECCO - TPT COMPARISON OR TSPs or any other location

HAVE ADDED 2 ADDING

INTERSECTION

40' SAMPLE

SLUDGEPILE & TSPs

410 CECCO INDICATIONS

1 TPT CALLED (PANCAKE COIL DIDN'T DETECT)

IPZ [CONT]

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20 CECCO INDICATIONS IN CREVICE

~~Add~~ TPT-INDICATIONS CONFIRMED

$$124 \text{ (PREVIOUS PHONECALLS)} + 60 = 184$$

36 INDICATIONS SEEN BY CECCO

21 INDICATIONS SEEN BY TPT

DATED TSP INSPECTION - Previous ^{conf call} inspection said TPT inspection is ongoing \Rightarrow TPT now completed and none of them confirmed the cracks at TSP \Rightarrow tubes will be plugged

Flow slot honyglassing - (see previous conf. call notes)
Preventive plugging? Evaluation ongoing

Leakage Assessment

\Rightarrow They will factor in a projected leak rate

\Rightarrow analytical leak rate will be used if no leakage occurs during insitu

Manways on by Sunday

No NBend indications

low now

• Followup info/results of insitu

end of 6/2 call

ANO-2 [CONT.] o.s.

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ANO WILL SEND IN LISTING OF INDICATIONS

Cycle length - ANO can't discuss yet, because they haven't reached that conclusion yet

⇒ Expect to have that completed within 3-4 months ^{from startup} NRR is seems too long

Considering they only operated 5 months this time ⇒ They won't get ~~that~~ any closer than 3 months

Future Plans

- C-3 & 15 day report
- Breaks closed 6/9
- They think they can support a 9 month run cycle

6/3/97 IP2 - In situ Discussion Plans 3:00 pm
 C. Jackson
 K. Krieger
 P. Saville

New Count

- "21" - 16
- "22" - 50
- "23" - 53
- "24" - 20

2 AXIAL - sludgepile (yesterday) ⇒ Error ⇒ only 1

- "22" ① tubsheet crvice axial 2900 psig no leakage
- ② " " " " " " "
- * ③ Sludgepile axial 5000 psig no leakage
- ④ Roll transition axial 2900 - no leakage

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IP2 [CONT]

"24" 2 tubesheet crevice exist indications
Thursday or Friday

+Pt Examination \Rightarrow what type of +Pt Probe
+Pt coil + package
Gimbaled Probe only used if analyst says
that it's needed

* Calibration, speeds
Standard used for +Pt inspection +Pt

* asked to send in raw eddy current data, ECT
guidelines, Calibration standard drawings, ACTS
(optical disk format) - indicate whether gimbaled
probe was used for any of these \Rightarrow this
is for the 36 Cecco indications used in
the Cecco / +Pt comparison

6/13/97
end to call

6/4/97 SEABROOK - SG INSPECTION RESULTS 10:00 AM

J. Smith
B. Saxe W
K. Wray
K. Wilson (y?)

① P \rightarrow S LEAKAGE

SG "C" Thanksgiving 1996

.02 GPD \rightarrow 1.6 GPD end of week

\rightarrow .05 GPD \rightarrow .08 GPD \rightarrow HOUSING

SG "B" - shutting down 5/9/97 - Developed leak
.05 GPD \rightarrow .08 GPD