

July 8, 1991

To: Steven J. Vias, RII

From: Larry L. Robinson, OI:RII

Subject: Mosbaugh Tape Transcripts

Attached, please find copies of 74 transcripts of tapes provided to NRC by Allen Mosbaugh. These transcripts have been reviewed for voice identification and clarification by Mosbaugh, under OI observation. Mosbaugh's handwritten notations are on these transcripts. The annotated segments pertain primarily to allegations under investigation by OI at this time, so there may be segments of interest to RII that are not annotated. Neither these transcripts, nor the tapes from which they have been transcribed should be disseminated outside NRC without express OI permission. For purposes of accountability, these transcripts are numbered as follows:

9, 10, 41, 42, 57, 58, 73, 74, 75, 76, 81, 83, 95, 98, 99, 100, 101, 155, 156, 158, 159, 160, 166, 167, 168, 169, 175, 182, 183, 184, 185, 186, 187, 199, 200, 201, 204, 205, 212, 213, 214, 215, 216, 217, 219, 220, 222, 223, 225, 226, 227, 230, 234, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 264, 266, 267, 269

INTV OF STU FERNETER 7-17-91

ADVISE OF NATURE OF INVESTIGATION:

SET SCENE & REVIEW MEETING SUMMARY

MEETING CONDUCTED AT GPC'S REQUEST.

- (1) WHAT WAS PURPOSE OF MEETING? ^{TO RESTART} UNIT 1
- (1a) WAS THERE A STATED PURPOSE OF SHOWING
BEING IN A SAT. COND. TO RETURN TO MODE 2.
ANY CALLS ABOUT AN URGENCY TO RETURN TO CRITICALITY PRIOR TO
- (2) RECALL ANY CHANGES OF MEETING DATE, NO. 45TH
- (3) APPROX HOW LONG WAS MEETING
ESTM. \approx 2 HRS

AGENDA SHOWS BOCKHOLD TO SPEAK ON
"DIESEL TESTING/OPERABILITY"
THAT OCCUR? (G.B.)

WAS THE TRANSPARENCY RE DIESEL TESTING SHOWN & DISCUSSED?
DID GPC AWARE OF CONC. BETWEEN BOCK & RESID.

FROM THAT PRESENTATION DID YOU MAKE ANY
CONCLUSIONS ABOUT EDG RELIABILITY?

WHAT DID SPECIAL TESTING SECTION OF THAT TRANSPARENCY
MEAN TO YOU?

I NOTICE THE TRANSPARENCY LISTS "SUCCESSFUL STARTS" OF THE 1A/12
WAS THERE ANY CONVERSATION ABOUT ANY "UNSUCCESSFUL
STARTS" IN CONNECTION WITH THAT TRANSPARENCY
~~LIE THE INFO ON THE UNSUCCESSFUL ST~~

WHAT PERIOD OF TIME DID YOU UNDERSTAND WAS COVERED
BY THAT TRANSPARENCY? ^{FROM} DATE OF EVENT NOT PARTICULARLY

DID YOU REVIEW THAT TRANSPARENCY AFTER THE 4/9
MEETING? "WENT AROUND TABLE"

TALKED TO
THEM ABOUT
AIR SENSOR
(IN TESTING)

PRETTY SURE
WHEN GPC
LEFT MTG.
NO VERBAL
APPROVAL
GUESS
05/16/93

TYPICALLY
G.C. CALLS
& ASKS HOW
WE GET
OUT OF
CAL

DON'T
RECALL
G.B.
SPECIFIC
MAKING
DIESEL
PRESENT

RELYING
ON MILT
HUNT
(ON SITE)

CONCLUDE
AS GROUP
SATISFACTION

WHAT PART, IF ANY, DID YOUR CONCLUSIONS ABOUT
EDGE RELIABILITY FROM THAT PRESENTATION PLAY
IN YOUR DECISION TO PERMIT VOGTLE UNIT 1
TO ASCEND TO "MODE 2, ATTAIN CRITICALITY, AND PROCEED
TO SUBSEQUENT POWER OPERATIONS (SEE 4/12/90 LTR)

IF BOURHOLD HAD PRESENTED INFO ON UNSUCCESSFUL
STARTS AT 4/9 MEETING, HOW WOULD THAT HAVE
AFFECTED YOUR DECISION ON RETURN TO CRITICALITY

ALSO ON 4/9/90 GPC RESPONDED, BY LETTER, TO
YOUR 3/23/90 CONFIRMATION OF ACTION LETTER.

DO YOU RECALL READING THAT 4/9 GPC LETTER?

~~YES WAS THAT LETTER RECEIVED~~

WITH RESPECT TO THE MEETING, WHEN DID
YOU READ THE LETTER? BEFORE YOU
GAVE PERMISSION TO GO CRITICAL (4/12)?

ON PAGE 3 OF THE LTR, A STATEMENT IS
MADE "SINCE MARCH 20,"

DID YOU RELATE THAT STATEMENT TO THE TRANSPARENCY
IN THE 4/9 MEETING AT ALL?

WHAT DID THAT STATEMENT MEAN TO YOU.

WHEN READING THAT STATEMENT, DID YOU THINK
THAT 18 & 19 WERE THE TOTAL NO. OF
STARTS SINCE 3/20?

WOULD HAVE # OF
LOOK-AT # WHEN
FAILURES & WHEN
NATURE
OF FAILURE

STATEMENT
MEANS

TRIED 18 & 19

ALL STARTED
ACCORDING TO TSPEC'S

THEY
BROUGHT

50%
IF I DID
NO DISSENT
IN
AROUND
IF I DID
WOULD
STATEMENT
MEANS
TRIED 18 & 19

STU SPEC IMPRESSED
BY MCCOY "CUTTING ROCKHOLD OFF"

7-17-91 / 0814

W/ROBINSON P.1

CTT

EBNETER, STEWART D.

- Backhold gave parts of diesel start presentation
 - truck sunset go.
 - sunset review team critique
- most meetings - M'COY would usually take over for Backhold.
- All aware of conflict between Resident & Backhold
- Backhold did not give good presentations

TATE GOT MEETING SLIDES

- Christer thinks he initiated meeting, (to get out of cap) "you have to come in here."
- Luis or Phil/Stor usually make arrangements
- look for "meeting notice" - will show at when request meeting was called.
- doesn't recall Backhold doing diesel presentation - thinks it was someone else.
- how long meeting? - APPROX 2 HRS (GUESS)
- changes of date - don't recall - a possibility
- diesel slide - conclusions drawn - "I don't really know." We had Milt Hunt on site + I relied on Milt
 - purpose of meeting - return to give slide put in as basis...
- group concluded it was ok what they had done.

Milt did not brief Christer directly, but

REYES/STOR CAN SHOW WHO REQ. MEETING

MEETING NOTICE

kept in touch w/ resident.

- we were still concerned w/ switches - vulnerable to rust. Duke has some logic system. Milt was there for several weeks to find problem - we bypassed system.

- Went around table - Chapin, Varga, Mathews, Hunt, Varstaf - RE: RETURN TO PWR.
 ↳ NO PROBLEMS.
 Might have inferred something re return to power.

- Slide - 18/19 successful starts
 - number didn't register

- Written response to CAL - might have carried the response over. Must have read it, but doesn't recall. GUESS - they probably brought it with them.
 *CHECK DATE STAMP ON doc.

CHECK DATE STAMP

- most releases from hold points are made verbally.

doesn't recall when he used doc.

"NO PROBLEMS OR FAILURES ASSOCIATED..." - what does that mean?

they started IAW the spec. There might have been some failures. In hindsight - they could say - we only told

HANDWRITTEN

you about the starts.

what if...

- it would have been questionable / unacceptable.
- when did you have the failure
- staff would have questioned - what does it mean.

• DISCUSSION on failures?

don't recall, but think staff questioned if any failures. ^{MILT HUNT COULD ANSWER} Birmingham guy talked about. Think they went to Lytle Labs.

MILT HUNT

- Cluiter puts note on each pg. of slide showing presenter - he will look for his copy.

BBNETERS COPY
(GET NAME FROM)

- Cluiter makes decision re: return to pub - there were no dissenters

- TIME FRAME } CONSIDERATIONS
NUMBERS
SPECIFIC CAUSE }

3 attempts to start early - if different or not pinpointed. - possibility of keeping from going to return to power.

- don't recall date (starts) - assumed from date of event.

- presentation would represent over 50% of input - also site staff: Kent, Chifu, Reidant.

- NO STAFF MEMBERS (AT MEETING) DISSENTED. If dissent, I would not have allowed restart (until concerns addressed).

- nothing else to add - but, may have slides.
 - will look

8/28/91

①

ALFRED E CHAFFEE, BRANCH CHIEF,
EVENTS ASSESSMENT
BRANCH, NRC
NRC

(AT TIME OF IIT
DEP DIR, DRP, RV)

ARR (C) IEEP 3/24 LEFT 4/2 ^{WENT TO MABB}
WENT HOME (TO RI) W.E. OF 4/14-15 <sup>HAD A BIG
MEET. SAID AITE A
DECIDED TO IN SITE</sup>
WENT BACK AGAIN FOR COUPLE DAYS 4/16 - 18/90

BACK UP TO MABB.

OF AC'S TIME (TEAM MIGHT SAY MORE)
= 40% FOCUSED ON EDGE'S ^{SPENT} LOT OF TIME IN PICK
HENDALL.

SUCH A KIDN INTER IN FINDING ROOT CAUSE
"INSERTED MYSELF" INTO PROCESS OF
TROUBLESHOOTING.
(COULDN'T JUST ISOLATE & PULL DIESELS OUT OF SYSTEM)
LIVEN. DIDN'T HAVE MUCH RECORDS — DID LOT OF
VERBAL VERIFICATION ^{ON INDICATORS OF EDGE FAILURES} (DIDN'T GET RECORDS
UNTIL AFTER LEFT SITE)

WANTED "MACHINERY HISTORY" OF CALCON SEASON FAILURE

BUCKHOLD TOLD CHAFFEE "SYSTEM ENGINEER WOULD
KNOW" — (HE DIDN'T KNOW)

LICENAS DIDN'T WANT TO "COUNT" CERTAIN TYPES OF
FAILURES.

②

HAD NOT GATHERED INFO TO ^{DIRECTLY} MAKE
ASSESSMENT OF OPERABILITY.

THEORY

CAN'T DECLARE IT OPERABLE UNTIL
CONFID. IT WILL PERFORM SAFETY
FUNCTION.

THINKS WGP DOING MORE FREQ ENG SALS
THAN MONTHLY (INDICATING FAILURE)

DON'T THINK FOUND EVID. OF FOREIGN
MATERIAL IN CALCON SENSOR UNTIL

AFTER

(2-3 WKS AFTER
IIT TEAM LEFT
SITE)

SINCE INTERMITTENT FAILURE (FOREIGN MAT'L)

IT WAS AFTER 4/16/16 THAT ACTUAL SENSORS
WENT TO WYLLIE LABS & FOUND ^{FOR} MAT'L.

PAID MD-MAY - WHEN FOUND LOOSE MAT'L IN
CONDN TO CAUSE FAILURE.

DON'T RECALL AN URGENCY TO MAINTAIN
OUTAGE SCHEDULE.

BUT SENSE THAT BUCKFELD NOT INITIATIVE
ON THEIR OWN TO FIND OUT

(3)

NOT SURE, BUT THINK I RECALL BEING
ON PHONE (CONF CALL) — COULDN'T
HEAR

IF THEY HAD ASKED ME, I WOULD HAVE
KNOWN OF NO REASON NOT TO PERMIT
START-UP.

WAS REGION #3 CALL ON START-UP

PRICKMAN WAS AIT TEAM LDR — DID TEST OVER
W/MT, BUT STAYED MOST OF TIME
AS RT LIAISON TO IIT

KENDALL PART OF AIT & STAYED AS IIT MEMBER

DON'T HAVE ANY NOTES INDICATING I WAS ON
4/9 CALL

WOULD HAVE HEARD REGION'S RESPON ON
START-UP.

HAD TENDENCY TO
"LOCKHOLD" PUT BLINDERS ON W/RESPECT
TO PAST PERF. OF DIESELS AND
JUST WANTED TO START W 1ST SUCCESSSES

8/28

①

RICHARD ALLISON KENDALL (RICK)
SR. ELEC. ENG.
EVENTS ASSESSMENT BRANCH, NRR

W NRC 12 1/2 YRS

WENT TO DOE 12/90

SR. GEN ENGINEER, D.O.E. GERMANTOWN
(DP-9) MD.
DEFENSE PROGRAMS 19901, G TOWN RD.
G TOWN MD
20874

CHAS. E. ROSSI (ERNIE)
"

MEMBER OF AIT — THINKS WENT
TO SITE DAY
AFTER EVENT

AFTER 2 DAYS — BECAME IIT.

BIG ANSWER TO RESP^N FOR ASSESS OF IMPROV,
ONLY LOOKED AT IMPRV, EDG — NO
IN RELIAB. FROM ROOT CAUSE STANDPOINT

WAS NOT PRESENT AT ^{4/9} PRESENTATION

②

OF
LEFT SITE BECAUSE HAZARDS
W/ - MOTEL RATES
TRIPLED

AFTER INITIAL 2 WKS
RETURNED ONE OTHER TIME (3-4 DAYS)

SHELDON & O'YING (SERVICING OF
SHARP INDIVIDUAL
DIESELS)

VEEP DID LOT OF TESTING RIGHT AFTER
ELECT

IT TRIED TO GET DATA FROM GPC
ON DIESEL STARTS

KEV. STOKES END ENGR - START

FORMER

WANTED TO HELP
TEAM

HORTON (TALKED THE
GAME, BUT NOT GOOD)

ROCHERY
STOKES

HELPFUL
INTERESTED

(3)

DID HAVE SERIES OF SUCCESSFUL

LENGTHS OF TIMES OF DIESEL
RUNS VARIED FROM UNDER
~~AT~~ A MIN UP TO 20

WHEN I LEFT (4/2) I DIDN'T
HAVE SOLID ROOT CAUSE & DON'T
THINK GPC HAD GOOD HANDLE
(GPC THOUGHT THEY DID - CALCON TEMP SWITCH)
FAST RCSA'S GROUP MAY BE ABLE
TO GIVE

WYLIE LAB TESTING ONLY COMPLETED
JUST PRIOR TO PUBLISHING
IIT REPORT (6/90)

METAL
WYLIE FOUND ^{METAL} SHAVINGS, THREAD
SEALANT.

I MAY HAVE BEEN ASKED BY
SOMEONE FROM RII ABOUT MY
ASSESSMENT OF EDG RELIABILITY
BUT I DON'T RECALL SPECIFICALLY.

I DON'T THINK I WOULD HAVE
A BASIS FOR THAT ASSESSMENT.

④

NOT SURE HOW "SUCCESSFUL START"

CRITERIA AFFECTS RELIABILITY

(CK W FAUST ROSA)

POOR

CALIBRATION TECHNIQUES —

N/C TRENDING PROGRAM —

NO ATTEMPT TO TRY TO PREVENT
JIT TEAM TO GET ACCESS TO
DOCUMENTS.

GPC NOT REALLY AGGRESSIVE
IN DETERMINING ROOT CAUSE
UNTIL 'PUSHED' BY NRC

HEARD NO CONV'S ABOUT DECEIVING NRC
ABOUT DIESELS

TELEPHONIC

8/30

LEIGH TROLINE, RES INSP
@ TPNS

5/8-10/ ALLEGATION FOLLOW-UP

6/11-15/90

- REMEMBERS A DISCUSSIONS ABOUT DIESEL FAILURES - & POSS PROBLEM WITH NUMBERS OF DIESEL FAILURES COUNTS IN LER
- DON'T RECALL SPECIFICALLY A GPC EMPLOYEE NOTIFYING ME OF "MISTAKE"

DON'T RECALL SPECIF WHO HAD DISCUSS WITH PROB BROCKMAN (WRC) & AUFDENKAMPE (GPC) IF ANYONE.
"ONGOING THING" - ^{DID}REVISED LER
IF ANYONE FROM GPC DID NOTIFY IT WOULD HAVE BEEN JOHN AUFDENKAMPE.

4/9
SITTING NEXT TO CASH AT MEETING
HE MADE SOME EXPLANATIONS

DIDN'T HAVE INDEPENDENT FEEL FOR DG RELIAB. DEF. NOT A EDG EXPERT.

DID FEEL THAT GPC WAS PRESENTING PICTURE OF EDG RELIABILITY

DON'T RECALL SPECIFICALLY WHO
MADE EDG START PRESENT

MY OPINION OF EDG RELIAB
WOULD BE STRONGLY INFLUENCED.
BY GPC PRESENTATION.

§

NOT EXPERT IN EDG'S

DON'T RECALL BEING ASKED IF I HAD
ANY OBJECTIONS TO UNIT 1 RESTART.

9/3 @ OI OFFICE RII

MILT HUNT,

3/20 - EVENT

FOLLOWING MON - WENT TO VEGP TO
OBSERVE TESTING OF DIESELS
INTERFACE FOR RII TO IIT (NEVER WAS MEMBER A
OPERABILITY & TROUBLESHOOTING ^{EITHER} AIT or IIT
TESTS

3/20/90 TUES

@ HATCH

WENT TO SITE
NEXT MON.

WHOLE WEEK PLUS - WENT HOME

WORKED:

KEN BURR

PAUL KOCHERY

KENNY STOKES

~~TEMP~~ JACKET WATER TEMP
SENSORS -

TOOK OLD ONES
OUT, PUT NEW
ONES IN.

DIDN'T HAVE GOOD CONTROL
OF CALIB. PROCD.

PROVED OPBILITY ON 'B' DIESEL FIRST
THEN TOOK 'A' OUT OF SVC.

(IS TRYING
DOWN DATES) @ VEGP DURING THAT TIME FRAME

DURING PRESENTATION — BOCKHOLD — MCCOY

(EMPHASIZE) PROB IN AIR START VALVES
TURNED CRANKSHAFT TO
CERTAIN POS'N'S.

(SHOWED ITSELF AFTER 4/9 MTG)
≈ 6 WKS

EVERYTHING TRIED WHILE I WAS
THERE WORKED.

HAVE

SOME MEETING (SAME DAY 4/9) EITHER
AFTER "S...O'ING OUT" OR LATER SAME
DAY — I'ENT & CAUCASED

NORMALLY, GPC WOULD HAVE KNOWN
IF CRIT OK'D

NO OBJECTIONS TO GOING CRITICAL THAT
~~YTD~~ RECALL

NO RECOLLECT

(TESTS PRIOR
TO UV RUN TEST
BAD OR GOOD WOULD
NOT HAVE AFFECTED
CRITICAL CRIN)

SEEMED PRETTY CONFIDENT IN RESULTS
OF TESTS AFTER ~~UV~~ RUN — NO
OBJ. TO GOING CRITICAL.

MAYBE NOT DIRECT W ~~EBNETER~~
BUT THROUGH BROCKMAN, EB SAYS
IF IT'S OK WITH HUNT IT'S OK
W ME."

9/3/71

p 2

MILT HUNT

(WITNESSED)

- was present for the starts
Larry will cover IN NOTES
- doesn't recall talking to Elmer
about EDG. (FROM BROCKMAN)
IF IT'S OK WITH ME (SENECA)
- in separate meeting group was asked
if anyone had an objection to restart.
- doesn't recall that anyone had
objection
- Hunt did not object.
NOT SURE WHERE/WHEN/AS SAME DAY
GAPW/ THERE
- about 6 hrs later Hunt rec. a call
that there had been a start failure.
- no statements about GAPW being
crooks.
- "that was one time they let NRC have
a little say."
- Hunt was not concerned about failures
which occurred prior to his testimony.
Restart decision was based on
witnessed starts.

*

END 1100 HRS

9/3/9/1030
RIL M ROBINSON
CTT

MILT HUNT

At plant Mon. after event for 3 wks.
- Not IIT - was interface for region -
AIT transformed into IIT.
Brockman was

Was not allowed to contribute
anything - was a gopher for the
team.

Tacket water temp sensors. were problem.
- replaced.
- developed new calibration procedure

Worked

1st proved operability on "B".

Worked most of Mon. night on "A"

Stayed until late Sat. night -
returned next Monday.

CHECK TRAVEL VOUCHER

Apr. 9 presentation - was there, had
a couple hang-ups. We held them
fast to the fire. Think it had to
do with air quality & ^{Tacket Water} sensors.

Doesn't remember who made
presentation - recalls McCoy &

Unit had bad air start valves - THAT
WAS THE PROBLEM ! ASK ABOUT THE MACHINING -
STOKES & BARR

9/4

PETE TAYLOR, KENNY LIPPER, LEO. BAKER, DES
@ OI OFFICE, EII

- HUNT WAS DESIGNATED AS ADVISOR TO IT?

- MESSIAH HAD THOR GO OVER

TO HELP HUNT WITH SOME OPBLTY
TESTS ON A FRI (THURSDAY)
~~(SAT 4/6 - 4/7/90)~~

WITNESSED TWO TESTS ON A DIESEL
(2) T.S. SUEFILL FOR OPBLTY
SUCCESSFUL

(OPS PEOPLE DID TESTS
S.S. - EQUIP CP)

THOSE TESTS DEMONSTRATE OPBLTY &
RELIABILITY.

TEST SAME CIRC - TO INCLUDE

* EVENT (AUTOMATE DEMAND)
& TESTS (MANUAL START)

CPL NOT AFRAID

ROUTINE 3/DAY TESTS TO DEMO OPBLTY
INDUSTRY DOES MANUAL

AUTO STARTS EVERY 18 MOS (TO TEST ALL TEST

TALKED TO BOCKHOLD ABOUT EXPECTED

MORE THAN JUST THE TWO OPBLY

TEST. — ~~NOT~~ ~~SEEN~~

BECAME
AWARE THAT BOCKHOLD WAS

GETTING A 4/9 PRESENT TOGETHER

NOT AWARE OF CASH/BURR INVOLVEMENT

NOT AWARE OF ANY TROUBLESHOOTING

FAILURES ON EITHER A OR B DIESEL

^{FIRST}
AT TIME WENT OVER.

WENT IN TO LISTEN & MAKE COMM ON

OPBLTY, IF NECL.

BOCKHOLD GAVE PRES ON EDG'S (OVERHEAD,

GOT INTO CALCON SENSOR PROBS
IN DETAIL — NRC/GPC
MCCOY

DAILY TELCONS ON ^{EDG'S} ~~ADDET~~

SOME CALCONS QUARANTINED

IMPROVED CALIB TECH'S - BENCH TESTED
NEW ONES.

COVERED EDG'S QUICKLY -

PRIMARILY ABOUT CALCON'S -
PORTION ON TRBSHTNG'S

WE HAD TO RELY HEAVILY ON CALCON
REP'S BY GPC AS FAR AS DECISIONS
ON RESTART

IF THEY HAD SHOWN FAILURES DURING
TROUBLESHOOTING - NO

NO PART OF "MEETING AFTER
MEETING" - NEVER ASKED

IF HAD ANY OBJ'S TO REL. HOLD
ON CRIT.

IF SOMEBODY HAD ASKED ME
I WOULD NOT HAVE OBJECTED
TO LIFTING HOLD ON CRITICAL

HUNT SHOULD KNOW ABOUT GALCON
TESTING IN PRETTY MUCH. DETAIL.

5/4/91, AII

0930

N/ROBINSON
CTT

PETE TAYLOR

4/24/90 event occurred

Hunt was advisor to IIT.

Wine left told Taylor to help

arrived 4-24-90 then 2nd

attended 2 tests of A ship P (T.S.)

some time for operability) 1- ^{1- 301} ~~301~~ AM (0300)

ops did test (operators + shift supervisors - didn't have names)

- 2 tests demonstrated operability + reliability - later they made additional tests - all good. tests involved all systems.
- 1. could test simulate loss of site power? Yes circuitry test would include calcon.
- Surveillance did not test "automatic" start - why? no one in industry does automatic start on this cycle. * every 18 months auto start is req.
- reliability is controlled by T.S.
- failures in troubleshooting or maintenance tests don't count as failures.
- not aware of Cash research data
- TAYLOR talked to Beckhold VEGP doing more quality tests (just status test in dem, between tests). Taylor was aware Beckhold was going to BII to make presentation. Didn't know Cash & Burr were involved.
- Didn't know of failures in tests - not have made a difference.

LEARNED IN Serial inspection

9/4/91
P. TAYLOR
P. 2
CTT

^{trouble shooting}
"A" was clear - failures seen on "C"

- ⑦ was just to witness the 2 tests.
- ⑦ told Backfield - 2 tests were OK, but that they should run additional tests (did not give specific number).

10:10 - Break (TAYLOR HAD A MEETING)

doesn't know what Wylie Labs found in their analysis.

- Apr. 9 meeting: improved calibrate techniques
: bench tested

- at time of meeting - calcon switches were quarantined per NRC request.

- had at least 4 start after 4/3/90 & before return to power.

- * file open -
• If troubleshooting failures were presented at meeting - NRC would have required more tests prior to restart - But no more than were done between 4/2/90 & ret. to power.
its in REC GUIDE 1.08.

- TAYLOR was not part of NRC meeting after 4-3-90 meeting.
- " " " asked if he had objections to returning to criticality.
- if asked - "I was satisfied w/ status of duals for restart."

Must shall address calcon questions

E-1115

9/5

DAVE MATTHEWS

NRR, NRC HQ

4/9 MTG. W GPC
↓ LTR REC'D

(THINGS CHANGES IN
LETTER MADE AFTER MTG)
TO RESPOND TO
QUESTIONS IN MEETING

GPC PREP'D LTR ON WAY BACK

CONF CALL 7:45AM 4/12 (THURS)

FINAL "BASE TALK" W NRR & IIT

(SET UP AFTER NRC REVIEW OF LTR

&

LIC ASKING TO RESTART

CONF CALL REV'D INFO IN LTR

IIT TEAM RESPONDED

- (1) INFO THEY HAD ASSEM
- (2) TO DISCUSS THEIR PERCEPTION
OF ATT, LOOP, FORTHRIGHTNESS
SPECIF BOCKHOLD

CARFFEE & CAZARUS

(WERE AMBIVALENT

DIDN'T PART LIKE BOCK, BUT DIDN'T

REALLY HAVE CRITICISM.

THINK MILT HUNT ON PHONE
CALL

- EITHER HE OR SELT CHF
CALLED ON BY STU
RE STATUS ON DIEBELS

AT THIS POINT IN TIME
"CAN BE RELIED UPON"

BEN HAYES (BUT DON'T RECALL
ON CALL IF HE WAS ASKED
ABOUT ANYTHING)

PARTLOW
VARGA

DEF @ MEET

STU WAS RUNNING THE PHONE CALL

SOLICITED EVERYONE'S VIEWS
DIDN'T DISCOURAGE

POLLED EVERYONE (DON'T RECALL
IF "NEGATIVE CONSENT" ON INDIVID.
POLLING.)

~~THE~~ THE WAY I EXPRESSED MY DISSENT
IS SHOWING PRETTY MUCH IN COMPUTER
PRINTOUT

NOBODY DISAGREED WITH "MY ISSUE"
BUT NO ONE SUPPORTED IT STRONGLY

EBNETER ACCEPTED MY DISSENTING
VOTE — DID NOT TRY TO
CHANGE MY MIND.

RE EDG RELIABILITY

1. ICE REG GUIDE TERMINOLOGY (VALID)

NOT USED IN 4/9 PRESENTATION
BY GPC

(DAVE BROUGHT UP VALID
TERM IN MEET (4/9)

CAN I EQUATE YOUR (SUCC STRTS)
TO VALID TESTING

MERSCHOFF STRUGGLED WITH
VALID VS SUCC STRTS AT
4/9 MEET, TOO)

3-5-91 / 1255

HG
W/ROBINSON
CTT

KENNETH E. BROCKMAN

W/REYES

- on site 1:30 day of event - till bed night, not early, then AM. (10:00) stayed until 3-27-90 (TUES). 4-2-90 - went back for IIT exit meeting. 17th/18th May - went back to VOTEC.
- electrical guy (RICK KENDAL), IIT, monitored diesel testing. had problems, were doing trouble shooting. were testing both diesels.
 - "B" diesel came up quickly, but tripped
 - "A" diesel went down again before the 5th - was declared operable & then inoperable. NRC was aware they had problems. B personally told McCoy (probably then) to be prepared to show, reliability & to know how the diesel had performed.
 - * B has personal notes of conversation with McCoy.
 - * B knew then ~~was probably~~ ^(to be seen) probably had more starts/data than presented (more than 5). That was not important because it was irrelevant to my decision.
 - McCoy was then, but B doesn't recall who gave presentation on starts.
- expected trip do not bother B unexpected
- unexpected failures after declaration of operability would cause questioning.
- reporting of unexpected failures after operability would be required to be presented. * CLEAR IN MCCOY'S MIND.

③ left meeting w/ understanding that there had been
18 successful starts - consecutive, w/o failures.

Think Colcons were ^{NOT} valued out by the 5th

"We were ignorant of Colcons."

we all knew the Colcon switches were the problem

Special T.S. amendment (end of april).

NRC meeting after the meeting

- same day, not long

KEY QUESTIONS: COMPENSATORY ACTION TRAFFIC IN YARD

CONFIDENCE IN DIESELS - 18/19

NEGATIVE CONSENT - "any one got a problem"

does not recall anyone dying to restart

9/5

KEN BROCKMAN @ OWEN
1705

W/ C.T. TATE

SAE 9:30 AM 3/20

ON SITE BY 1:30P SAME DAY }
RESIDENTS WENT RIGHT BACK
KEYES & BROCKMAN

CAME BACK TO ATLANTA 3/21

ARR^{BACK} 10:00 AM THURS 22

STAYED 'TIL NEXT ~~THURS~~ TUES 3/27

WENT BACK FOR FIT EXIT ON 4/2
STRICTLY FOR

NEXT TIME MID MAY

TROUBLES WITH EDG TESTING (MEANING
TESTING NOT VERIFYING RELIABILITY
BUT PURPOSE IS NOT TO SHOW RELI-
TEST TESTING - PROB'S EXPECTED
(RICK REARDALL (FIT) MONITORED
TESTING,

(2)

THINK, NOT SURE, HAD TROUBS

W A DIESEL ALARM, (AFTER

INIT TROUB SHT.) BEFORE 4/9

TOLD KEN MCCOY (TELEPHONIC)
THAT ON FRI NEED TO HAVE

ALL START DATA (I EXPECTED TO
SEE TRIPS)

DON'T RECALL WHO MADE DIRECTION
PRESENTATION - MCCOY WAS
SPEAKING FROM CERTAIN DATA

FAILURES

TROUBLESHOOTING NOT AFFECTED BY

DECISION ON RESTART UNLESS

THEY WERE UNEXPECTED FAILURES

KNEW AT THE OF PRESENTATION
THEY HAD STARTED A DIESEL
MORE THAN 18 TIMES.

(3) BLOCKMAN

FROM 13 STARTS AFTER
DECLARATION OF OBALITY

IF AN UNEXPECTED FAILURE
IN THERE. — I WOULD
HAVE ASKED QUESTIONS. ~~THE~~

DEPENDING ON WHERE IN CHAIN
START 2 OR START 9 AND WHETHER
EXPLANATION OF UNEXPECTED FAILURES.

MY INTERP OF 4/9 LETTER — BASICALLY
SAME AS PRESENTATION —

EXPECTED TRIPS (ESP DURING TRBSHT
NOT FAILURE OR PROBLEM)

9
JUGGLING DESIRE TO QUARANTINE
AGAINST SAFETY PROBS W
NO EDG OPERABLE W "FUEL IN POT"

④

I CAME OUT W IMPRESSION
THAT THERE WERE 18
CONSECUTIVE SUCCESS STARTS ON 1A
(NOT DISCUSSED IN DEPTH)

DON'T THINK CALCONS WERE "VALUED OUT"
BY THE 4/9 TIME FRAME.

CALCONS WERE TAKEN OUT BY SPEC. TS.
AMEND (END OF APRIL)

BUT OP TESTING INCLUDED CALCON
SWITCHES IN SYSTEM.

MTG AFTER MTG "SAME DAY - SOON
AFTER PRESENTATION.

18-19 STARTS "WE CAN LIVE WITH THAT"
CONSECUTIVE.

NEGATIVE CONSENT

"ANYONE GOT A PROB
WITH RESTART"

~~IF~~ DO NOT RECALL ANYONE
RAISING OBJECTION TO RESTART

SOME DISCUSSION, BUT NOONE
STATED OBJECTION.

IN MY OPINION EBNETER DIDN'T GET
UPSET WITH ANYONE —

8/23/93

TC - LLR TO BROCKMAN

BROCKMAN'S RECOLLECTION OF ^{HIS} ~~THE~~

4/19/90 TC FROM MCCOY WAS

AS FOLLOWS:

MCCOY STATED THAT
IN THE LER, GPC WAS GOING
TO COUNT FAILURES AS FAILURES
WERE DEFINED IN THE REG GUIDE.

BROCKMAN STATED THAT MCCOY
DID NOT BRING UP, IN THAT PHONE
CALL, THAT THERE HAD BEEN
TROUBLESHOOTING FAILURES AFTER
3/20.

BROCKMAN REITERATED THAT HE
KNEW ABOUT THE TROUBLESHOOTING
FAILURES, BUT MCCOY DID NOT
SPECIFICALLY BRING THEM UP IN
THAT PHONE CALL.

11/3/93 @ PLANNING UNIT
INTV. OF K. STOKES, W. / J. LAMBERSKI

KENNETH CLYDE STOKES

SR, ENGINEER (1)

SUPVSR
ROBT MOYE

UNIV. OF SC. EE. - DEPT.

EMPL @ GPC 6/81

HAS HAD DIESELS IN HIS AREA OF
RESPCN.

DON'T RECALL SPECIFIC START VERIFICATION
ON 4/19 FOR LER.

STOKES, KOCHERY, O'YOUNG
PRIMARY

DID NOT GIVE G.B. ANY WRITTEN
TEST PLAN, OR THE DATA
OR THE TRANSPARENCY DATA ITSELF.

DON'T RECALL IF KOCHERY DID.

A.M. PROVIDED HANDWRITTEN^W LIST TO
VERIFY OF IB DG —^{KS.} MARKED UP
THIS IB LIST & PREP'D ALIN LIST
THINK I GAVE BOTH ~~THE~~ TO MCSBAUGH OR
MORTON — PROB MCSBAUGH.

STOKES

(2)

DON'T RECALL SEEING THAT LIST (TSLA PROVID.
B.DOC.S)

THAT SHOW
D6 1A & 1B
STARTS

ALTHOUGH I "LIVED" D.G. TESTING
FIRST TIME RECALL DOING ^{FULL} VERIFICATION OF
STARTS. WAS WHEN MCSBAUGH
PRESENTED HIS 1B LIST & K.S. DID
HIS 1A LIST.

WAS NOT TASKED BY GB FOR SPECIFIC

INTV OF PAUL KOCHERY 11/1/11
(@ PLANT VOGTLE, w/J. LANDERSK

PAUL MATHAN KOCHERY

PLANT ENG SUPV, PLANT MOD.'S

2/22/77 - EMPL BY GPC

CONSTR & HATCH

79 - WENT TO COAL FIRED - ~~SHEPHERD~~

3/82 - CAME TO PLANT VOGTLE

AT TIME OF SAE

PLANT ENG SUPV. -

SYSTEM RESPONSIB FOR DG'S.

ONE TIME - MOSBACH GOT LIST
OF DIESEL STARTS FROM ME
DON'T RECALL WHEN

DONT " WHETHER LIST I GAVE
ANY. WAS TYPED OR NOT -

IT WAS TYPED LATER

I REQ CN OF CLERK TO TYPE

- WENT TO CONTROL LOGS & GOT LIST
- IT'S MY HANDWRITING ON LIST
- PREB DID LIST ON 3/23 - OR 3/24
- MADE COPY OF HANDWRITTEN LIST BUT
COULDN'T FIND IT WHEN SEARCHED.

KOCHERKY

KOCHERKY

(C)

PRCB STARTED LIST ON 3/12 - 3/13
BECAUSE DIESEL LOG WASN'T
UPDATED PAST THAT DATE.
SHOULD BE EXACT DUPLICATE OF CONTROL LOG

DON'T RECALL HOW SOON AFTER I
COMPLETED LIST THAT I GAVE
TO MCSBAUGH

SOON AFTER DIESEL DECLARED
OPERABLE - I ASKED MCSBAUGH
FOR LIST BACK - HE SAID HE
WOULD, BUT NEVER GAVE

GAVE COPY OF HANDWRITTEN
LIST TO RICK KENDALL

NEVER DID ANY OTHER SPECIFIC
VERIFICATION OF STARTS FOR
MCSB OR AUF FOR LER

G.B. NEVER ASKED ME TO PREPARE
ANY DOC'S SPECIF FOR PRESENTA.

I NEVER GAVE BOCK ANY DOC'S
FOR PRESENT

AVO IN VOGUE ENB SUPPT
(KOCHERY - STOKES)
PROVIDED INFO ON TRANSPAR
OR A SIMILAR FORM TO
BICK.

DON'T KNOW IF KEN BURR DID
OR NOT, BUT DOUBT THAT
HE DID.

2 BILL CHENAULT
KEN BURR WAS PRIMARLY
LOOKING THROUGH WORK ORDERS
TO SEE WHAT HAD BEEN DONE
TO DIESELS

11/3/93 @ PLUM
w/ ART DEMBY

CHARLES LEWIS COURSEY

SUPT, MAINTENANCE (NOW E ON 3/26/94)

BEEN IN BPC \approx 22 YRS

(@ HATCH \approx 7 YRS (73-EC)
CONSTR.

SCHERER - QUAL FIRED (EC-E3)

CAME TO VCGTLE IN 'E3

WAS A MEMBER OF CRITIQUE ^{TRY}
THERE WAS A GROUP ^{CUT OF THE CRITIQUE TEAM} THAT PREP'D
A TEST PLAN - BUT NO WRITTEN
TEST PLAN TO MY KNOWLEDGE

DON'T KNOW FOR SURE, BUT
THINK PLAN WOULD HAVE BEEN
FOR 1A BECAUSE THAT WAS
THE DE THAT FAILED

DID NOT GIVE DATA TO GB FOR
PRESENT -

DID NOT PLAY PART IN 4/9 PRESENT

DO NOT RECALL SEEING "DIESEL TEST
TRANSF UNTIL DATE INTV'D

11/3/93 (U) PLANNING
WITH ART DOMBY

(1)

INTV OF (MICHAEL)
CHRISTOPHER CHARLES ECKERT

SR. TECH SPECIALIST

QA AUDITOR, WITH LEAD AUDITOR
CERT

SINCE NOV., 1992

4210 (PHONE EXT. @ PLANT)

EMPL IN GPC SINCE
9/30/85

74 GRADUATE
USNA
NUC. PROGRAM

1980 OUT OF NAVY
HIRED ON INGE

WAS GE REP
HIRED INTO CORPORATE (ATLANTA) 10 DAYS
CUTAGE & PLANNING.

60-90 DAYS (ENV. QUAL PROJ) MATCH

MGR INDEP SAFETY REV. GROUP (JAN 86)
(ISEG)

6/87 CAME TO VEGP - TECH ASST TO
PLNT MGR - TO
SOLVE OP. PROBS.

12/87 APPTD
MGR OF H/P - CHEM

2/88 SRD SCHOOL (MGR IN TRNG) (COMPLETED -
HAVE SRD L.
JAN-FEB 89

STILL AGR IN TRNG TIL 10/89.
(DUTIES ON SHIFT &
OUTAGE REL)

10/89 - 11/92 REQUESTED TO BE
SHIFT SUPER - DID
SHIFT WORK

- LOCAL LEAK RATE COORDINATOR @
TIME OF SAE.

ON DATE OF EVENT - UNIT 2
BOCKHOLD ASSIGNED
EVENT CRITIQUE
TEAM LDR.

BOCK - DIR ECK TO PREP TRANSP'S
FOR 4/9 PRES. - RE
UNIT 2.

1) PREP'D "UNIT 2" TRANSP.
(IN PKG REC'D
FROM T.S.)

C. ECK'S UNIT SUPT WAS CASH
CASH HAD ECKERT
COOKING A D.C.'S

THINK ON A FR1 - WALKED INTO
CASH'S OFFICE - ^{WITH DC} NEED TO IMPROVE
LOCKED VALVE DC. PROCESS

JPL → DON'T HAVE TIME
CHRIS I'M DOING SOMETHING FOR
MY BOSSES, BOSSES, BOSS

SAW SOMETHING (USED 4/9 TRANSP.)
"LEFT JUSTIFIED"

IN COUNTING STARTS

4:30-5:00
WENT INTO GEORGE'S OFFICE
CE - THEY DON'T ADD UP

GB - THEY DON'T NEED TO ADD UP
~~NO FOLLOWING DISCUSSION ON THAT SLIDE~~

CE
THINK WAS TASKED TO DO "UNIT 2" TRANSP
ON THAT FR1, BECAUSE HAD TO
HAVE IT "THAT AFT." - DON'T
RECALL IF TASKING CAME FROM GB

THINK CASH WAS WORKING TO CORRECT
THIS LEFT JUSTIFIED DOCUMENT

GB - CE INTCHNG ON PK1 AT1 (4/10) (7)

- 1ST DISCUSS - MINOR CORRS TO UNIT 2 SLIDE
- BACK OUT TO HAVE DIXON CORR.
- BACK IN - GB ON PHONE

LOOK @ DIES TESTING SL.

"DON'T ADD UP"

"DON'T HAVE TO" "THAT'S NOT

PURPOSE OF THIS SLIDE" THIS

- DON'T RECALL ^{IS A REP. OF TYPES OF THINGS THAT} ~~WEADNE~~ ^{DIESEL TEST} ~~ANY FURTHER DISCUSS ON~~ SLIDE

WENT OVER UNIT 2 CORRS

GET APPROVAL - & LEFT.

MEMORABLE BECAUSE HADN'T DONE PRESENTATIONS
FOR A WHILE.

HAVEN'T TALKED TO CASH ABOUT CONU
W BUCKHOLD (THEN, OR EVER)

GB NOT ANGRY @ ECKERT REVIEWING SLIDE.

PERHAPS I RECALL THAT THE LIST
ON JPL'S DESK WAS LEFT
JUSTIFIED BECAUSE HIS OFFICE
IS USUALLY DISORGANIZED.

THINK LIST ON BOCK'S DESK
WAS NOT LEFT JUST., BUT
DON'T SPECIFICALLY RECALL.

DON'T RECALL ANYTHI