

AUG 29 1979

Distribution:

s/f
ODTLynch
FJMiraglia ✓
RDeYoung

MEMORANDUM FOR: Victor Stello, Jr., Director
Division of Operating Reactors

FROM: Richard C. DeYoung, Deputy Staff Director
NRC/TMI/Special Inquiry Group

SUBJECT: MEETING WITH NRC REGIONAL INSPECTORS TO DISCUSS
LICENSEE RADIATION PROTECTION PROGRAMS FOR
NUCLEAR POWER PLANTS

The Three Mile Island Special Inquiry Group is examining, in general, the Health Physics programs of the various utilities operating nuclear power plants. This will enable us to evaluate the TMI program in relation to other utilities. In pursuit of this inquiry we would like to discuss the radiation protection programs of nuclear power plant licensees with various NRC regional inspectors knowledgeable in this area and familiar with the utilities in their respective regions.

In order to accomplish this task we request the following I&E personnel attend a meeting with the Special Inquiry Staff to discuss the subject at our offices on Arlington Road, beginning at 9:00 a.m. on Tuesday, September 25 and continuing thru Wednesday, September 26, 1979.

B. Greger

G. Yukas	RO-I
D. Neely	RO-I
A. Gibson	RO-II
W. Fisher	RO-III
B. Murray	RO-IV
F. Wenslawski	RO-V

Smith
Davis
B. Greger
K. Witt

F. Miraglia
S. Gandy
H. Norton
O. Lynch
J. Biscardi

The elements of the licensees program to be discussed at the meeting are provided in the attached agenda. Each individual should be prepared to make a presentation on the situation in his region.

If you have any questions regarding the above, please contact F. J. Miraglia on 2-8930.

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Richard C. DeYoung, Deputy Staff Director
NRC/TMI/Special Inquiry Group

Attachment:
As stated

8001170574

OFFICE	NRC/TMI/SIG3	NRC/TMI/SIG			
SURNAME	ODTLynch	RDeYoung			
DATE	8/27/79	8/30/79			

T.M.I, SIG

ODTL
OLIVER D. T. LYNCH, JR.

9-25-79
0900-1600

CONNECTICUT'S RAD. PROT. PROGRAMS
MEETING WITH REGIONAL I&E INSPECTORS

Management— PROCEDURES

GIBSON — LICENSEE IS BEST EQUIPPED TO KNOW WHAT PROCEDURES AND DEPTH TO DEVELOP. CAUTIOUS ABOUT STANDARDIZING.

GREGG — REG GUIDE USES BROAD TERMS. COULD BE MORE SPECIFIC. THIS IS ONE OF THE PROBLEM AREAS. IN SOME CASES THERE IS NO REQUIREMENT FOR PROCEDURES IN TECH SPECS, AND THERE IS NOTHING THE INSPECTOR CAN ENFORCE.

WEWSLAWSKI — THERE MAY BE A REQUIREMENT TO DEVELOP PROCEDURES BUT NO REQUIREMENT TO ADHERE TO THEM.

Step. ~~GIBSON~~ — WOULD LIKE TO SEE REQUIREMENT THAT MAINTENANCE & OPERATIONAL PROCEDURES ARE REVIEWED BY RAD. PROT. DEPT. NOT REQUIRED IN ALL CASES. THERE IS A NEED FOR RAD. PROT. TO REVIEW ALL WORK PROCEDURES. ALSO NEED A REQUIREMENT FOR AN ALARA PROGRAM IN TECH SPECS.

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GREGOR - DON'T HAVE TIME & MANPOWER
TO REVIEW DRAFT TECH SPECS.
UNTIL FINAL DRAFT STAGE.

MURRAY - INSPECTOR IS UNDER GUN TO
HAVE LICENSEE DEVELOPE PROCEDURES
IN SUFFICIENT DETAIL. (NOT
DONE BY NRR.)

WENSLAWSKI - TECH SPECS SHOULD REQUIRE
MORE. AND BE MORE CLEAR.

GIBSON/MURRAY - REVIEW OF PROCEDURES SHOULD BE
LEFT TO I&E IN ROBOURS AND NOT
TO NRR IN HQ.

GREGOR - PROCEDURES IN R. P. AREA ARE
EXTREMELY PLANT SPECIFIC. +
NOT AMENABLE TO STANDARDIZATION.
BUT R.G. 1.33 SHOULD BE MORE
SPECIFIC.

DON'T HAVE A BIG PROBLEM IN NEW
PLANTS BECAUSE HAVE TEETH IN
PRE OP INSPECTION (PROBLEM WITH
OLD LICENSEES (> 10 YRS), WHICH
RESIST HAVING NEW PROCEDURES.

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WENSCAUSKI - REGION V, MOST OF (OR ALL)
HP ~~THE~~ SUPERVISORS ARE GENERALLY
WELL QUALIFIED PEOPLE.

GIBSON - ADHERENCE TO HP PROCEDURES
ARE A PROBLEM. DUE PARTLY
TO BAD PROCEDURES.

GROOR - DISAGREES - DEPENDS ON STRICTLY OF
AND ENFORCEMENT BY I&E INSPECTORS.

NEWY - MANAGEMENT ^{SUPPORT} IS IMPORTANT. SOME
WILL WRITE WEAK, UNENFORCEABLE
PROCEDURES TO AVOID NON-COMPLIANCE.
OTHERS ARE VERY STRONG.

GROOR - LICENSING ^{NOW VERY} RELUCTANT TO MAKE
TECH SPECS CHANGE DUE TO FEE.

IN HIS REGION, THERE'VE BEEN ANOTHER
AGGRESSIVE RECENTLY AND IT HAS BEEN
EFFECTIVE, WITH NOTICEABLE IMPROVEMENT.

GIBSON - NEED STRONGER ENFORCEMENT.

NOTE: TMI WAS AT LOW END
OF BEN CURR FOR CANS VS. RP.

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TRAINING —

BASIC RAD. PROT. ~~R~~

MURRAY — BASIC FOR ALL EMPLOYEES

— HP TRAINING FOR R.P. STAFF.

GIBSON — NRC HASN'T COME CLOSE-
TO REQUIRING OR PROVIDING TRAINING
TO INDUSTRY. INDUSTRY HAS
RATED HEAVILY ON NAVY'S PROGRAM.
UTILITY CAN MEET NRC REQUIREMENTS
AND STILL NOT HAVE ~~500~~ WELL
TRAINED HP TECHS.

WOULD LIKE TO SEE ~~NRC~~
UPGRADE TRAINING OF HP
TECHS.

NRC COULD REV. OF A B of HP
OR PROVIDE TRAINING ITSELF.
WOULD LIKE TO SEE NRC
PROVIDE TRAINING.

WHAT WE SEE AT TMI
IS NOT UNUSUAL.

GREER — TMI IS WAY DOWN ON COME-

NEELY — TMI DIDN'T MEET FSAR
OR TECH SPEC REQ.

GIBSON — TMI DIDN'T HAVE TRAINING.

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Greaser - NRC TRAINING REQUIREMENTS
IN ADEQUATE.

Wonslawski - BASIC EMPLOYEES - LOCKER #12
NOW R.G. CARRY OUT-SKILL HELP
FROM CALLS & INQUIRIES IN REG II,
HAVE SOME INDIVIDUALS WHO
DON'T UNDERSTAND BASIC R.P.
BUT, IN GENERAL, OK.

R.P. TECH TRAINING -

BIG SOURCE IS NAV. REACT.
PROGRAM. OTHER THAN THAT,
TRAINING IS STRUCTURED TO
PARTICULAR PLANTS.

EVP. AT TROJAN - NOT LOT
OF TRAINING IN SYSTEMS.
RESULTED IN OVEREXPOSURE DURING
FUEL TRANSFER TUBE. PGB
DEVELOPED A SYSTEMS TRAINING
COURSE TO COMBAT THIS.

MURRAY - TRAINING OF NON-LICENSED
PEOPLE DOESN'T REALLY EXIST.
UTILITIES STRESS TRAINING FOR
LICENSED PERSONNEL.

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GREGG — REG. REQUIREMENTS FOR TRAINING
ARE POOR.
HAS SEVERAL PLANTS BETTER
THAN TMI, BUT STILL
SEARCH FOR GOOD TRAINING.

NEELY — SOME PLANTS WON'T ISSUE
EXAMS BECAUSE OF UNIONS.

GIBSON — ALTHOUGH THERE ARE
ALTERNATIVES — FAVORS
LICENSING IN STATES OR
HIP TESTS.

NEELY — 10 CFR 19.12 TRAINING
SPESSES OPN. ~~TRAIN~~ CONDITIONS,
NOT SHUT DOWN, WHICH HAZARDS
GREATER.

REG. I, TMI IS AT
BOTTOM OF SCALE. ~~ONE~~
OTHER PLANT IS IN SHUT
DOWN, ALSO A GPU PLANT!

GIBSON — UNION PROBLEM — UNIONS
BLOCKED REQUIRED TRAINING
BECAUSE OF ADVANCED PAY.

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NEELY - Without separate training
DEPARTMENT IS RESPONSIBLE FOR
R.P. TRAINING, IT IS MUCH MORE
EFFECTIVE.

GIBSON - IN REG. III. TRAINING DEPT
IS USED AS SCHEDULES, WITH
ACTUAL TRAINING HANDLED
BY R.P. DEPT.

GIBSON - TRAINING PROBLEM WILL ONLY BE
SOLVED BY STRONG MEASURES -
NRL PROVIDING TRAINING
LICENSING OF HPTECS.

NEELY - ADDITIONAL PROBLEM w/ GEN. HPTECS,
MANY OF WHICH HAVE BAD TRAINING
+/OR EXPERIENCE.

DON'T NEED ACADEMIC TRAINING,
NEED INSTRUCTION FROM PEOPLE
WHO HAVE ACTUAL EXPERIENCE IN
POWER PLANT. CURRENT EXPERIENCE:
NEED APPLICATION'S TRAINING.

DAVREY - NOT THAT MUCH ACADEMIC TRAINING
FOR TECS AVAILABLE. THIS
FINDS ON SR. HP. AT PLANT.
OR NOW ON REVIEWS "ANY. TRAINING."

Neely - Region I has required outside consultants to train H.P.T.S. in 3 plants. HAS BEEN VERY EFFECTIVE. IN LAST TWO YEARS.

Grober - NO HARD REQUIREMENTS FOR WHAT TYPE OF TRAINING SHOULD BE GIVEN.

Gibson - NRC HASN'T PUT RAD PROT ON Q LIST BECAUSE NOT "SAFETY" RELATED.

Re Training & Report.

ANSI 18.1 (CG 1.8), lists areas of training, but doesn't indicate frequency or results.

ANY UTILITY CAN MEET THESE REQUIREMENTS WITH MINIMUM EFFORT AND LITTLE TRAINING.

Gordon - TMI IS ABNORMAL IN NOT RECEIVING ANY TRAINING.

Neely - THERE ARE SEVERAL PLANTS IN RO-I, WHOSE RAD PROTECTION PERSONNEL ARE NOT ON BACK SHEET, AND OPERATORS STAND IN FOR THEM.

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- Wonslawski - FEELS UNCOMFORTABLE USING AUX OPS FOR BACK SHIFT R.P. COVERAGE, BECAUSE AUX OPS ARE NOT FULLY INVOLVED IN R.P. ALL TIME, AND THIS NOT FULLY KNOWLEDGEABLE.
- Murray - REG. IV ALSO HAS PLAYS USING AUX OP. ON BACK SHIFTS FOR R.P. COVERAGE.
- Neely - RO-I DISCOMFORTS ROTATION BETWEEN P.P. & R. CHOW, BECAUSE IT IS INEFFECTIVE.
- ~~Wonslawski~~
Wonslawski - GAVE EXAMPLE (TUD) WHERE THIS ROTATION CAUSES LOSS OF A QUARTER'S DATA ON ENVIRON. MONITORING.
- Gatton - MOST UTILITIES TRAIN THEIR TECHS PRIOR TO CHANGES TO PROCEDURES.
- Neely - NOT SO FOR RO-I.
- Gibson - NOT SO FOR RO-II.
- Wonslawski - ^{SOME} SAID FOR RO-V.

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INSP. DURING OUTAGS -

DIFFERENT REGIONS HANDLE VISITS
DIFFERENTLY.

RO-II. 1 FULL WEEK

RO-I. 2 VISITS, 1 BEFORE
1 DURING

RO-V. EVERY OUTAGE

RO-III. FULL WEEK

Dosmety.

EXT.

MOST PLANTS APPARENTLY

EXT. MONITORING. TMI DIDN'T
EVEN HAVE EXTREMITY BADGES
ON-SITE.

CONTAMIN & EXTERNAL AIR - SEE TRANSCRIPT.

INSTRUMENTATION - PROBLEMS

GIBSON - IN SOME CASES IF ALL THEY
DID WAS MEET THEIR COMMITMENT,
THEY WOULDN'T HAVE SUFFICIENT QUANTITY.

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NEELY - OYSTER BUCK (GPU PLAN)
RECEIVED NOTICE FROM RO-I
ABOUT INADEQUATE MAINTENANCE
OF INST, & AVAILABILITY OF
INST.

GREGOR - UNCOMFORTABLE WITH HIS REGION
IF HAD THE PROBLEM WITH
INSTANT AVAILABILITY (LICENSES)
NO REAL DEFINITION OF "ADEQUATE-
NUMBERS" OF INST.
HAVE HAD SITUATION WHERE INST
NUMBERS WAS "IN ADEQUATE" DUE
TO MAINTENANCE &/OR REPAIR.
ON CAIB. VENDORS ARE PROBLEM

GIBSON/WENSLAWSKI/NEELY, MOST OF THEIR
UTILITIES MAINTAIN THROUGH
INST.

WENSLAWSKI - REGS DON'T SPECIFY CAIB
SOURCES, CAIB FREQUENCY, RAD LEVELS.

MURRAY - RO-4 LICENSES HAVE ADEQUATE
SUPPLIES. NEUTRAL CAIB (OFF SITE)
TAKES LONGER.

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GIBSON - WOULD LIKE TO SEE ANSI
STANDARDS FOLLOWED

WENSLAWSKI - INST. ISSUE CONTROL - WHAT
DO OTHER REGIONS OPERATE?

GREER - SURVEY PERSONNEL SHOULD BE
QUM. SURVEY INST. SHOULD
BE AVAILABLE ON DEMAND.

NEELY - SOME UTILITIES, INST. ARE
WELL CONTROLLED AND ISSUED
TO TRAINED & QUM. INDIV.

MURPHY - ROUTINELY, INST. OPT AT
HP OFFICE.

WONSLAWSKI - DOES NOT SEE UNIFORMITY.
CONCERNED THAT INST. NOT AVAILABLE
MAY RESULT IN INDIVID. ENTRY
INTO HIGH RAD AREA W/O INST.

FIXED INST.

AREA MONITORS -

GREER - Comment in RO-III to have
Area monitor (1) out.

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EMERGENCY INST.

NOT ADEQUATE GUIDANCE ON
CONSISTENCY OF EMERGENCY
INST +/OR KITS. (OR TRANSPORT
OF RADIO)

COUNTING ROOM

WONSUWASKI — Long before TMI — He has
been worried about loss of county
facility. Any 1 utility has set
up a back up county lab,
RANCHO SECO, using US Navy
facility ~ 25 miles away. Several
years ago.

MURRAY — All utilities have at 1 caly room.

GREYER — all utilities have at 1 caly room.

NEERY/GIBSON — there are some plants in
this region which hold 2 caly
facilities.

* Getty
1 (more)

MOBILE LABS —

RO-I	(1 ea)	RO-IV	(none)*
RO-II	(1 ea)	RO-V	(none)*
RO-III	(1 ea)*		

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Murray - Region IV has 2 plants
which have com by room problems
which have had pables when they
had small release.

Wonslanski - Ft. St. Vrain, too.

TMI SIG

ODTL 9/26/79
OLIVER D. T. LYNCH, JR. 0900-1500

LICENSEE'S RAD. PROT. PROGRAMS.

MEETING WITH REGION I & E INSPECTORS

①

CONTAMINATION CONTROL —

MURRAY — CONTAM CONTROL OUTLINED IN PROCEED.

SURVEYS OF AREAS & EQUIP.

DON'T WANT CONT. ITEMS SHIPPED

OFF-SITE. INSPECTED CLOSELY.

NOT A BIG PROBLEM IN OPERATING PLANTS,
BUT EXPECTED DURING OUTAGE.

GENERALLY, UTILITIES ARE GOOD IN THIS.

NEBY — MOST OF PLANTS HAVE GOOD PROGRAMS.

SURVEYS —

DEFINED PROGRAMS W/ LIMITS.

GOOD HOT LING CONTROL. (STEP OFF PLAN)

DETAILED CONTAMINANTS TO REDUCE PROT.

CLOTHING & RESP. PROT. REQUIREMENTS.

ONE PLANT WITH POOR ATTITUDE.

TOO ENFORCEMENT ACTION.

OVERALL REG. I PLANTS ARE GOOD IN
CONTAM. PROGRAMS.

TMI — PRIOR TO ACCIDENT HAD
PROBLEM. PRESENTLY UNIT 2

IS UNDER I&E GUN AND HAS IMPROVED.

UNIT 1 WAS SUPP'D.

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GREER - RO-III contain programs as
RC-IV & I. HAVE A CAPE-
OF PLATES WHICH HAVE POORER
PROGRAMS. ONE WHICH IS TRYING
TO BEAT NR PROGRAMS.
GENERALLY, CONTAM CONTROL IS NOT
A SIGNIFICANT PROBLEM. OCCASIONALLY,
DO HAVE SOME CONTAM. LEAK SITE;

WENSLAWSKI - RO-V. INSP. DO SWIPE SURVEYS
DURING INSP. + COUNTY AT OFFICE.
NAVY USES / COLOR TO IDENTIFY
CONTAM ITEMS (YELLOW). INDUSTRY
SHOULD ADAPT, TOO.

GIBSON - AGREES W/ WEN. ON YELLOW COLOR.
RO-I ALSO DOES SWIPE SURVEYS.
DIDN'T FEEL CONTAM WAS
A PROBLEM AT THIS ACCIDENT,
NOT A REAL PROBLEM IN INDUSTRY.
RO-I IS NOW SURVIVING W/ 2X2 NAT
SCRAP DUMPS ADJACENT TO PLANT.
H.P. TELLS SHOULD CLEAR ALL TOOLS,
THEY DON'T.

A LOT NEEDS TO BE DONE BY
LICENSEES ON UNPLANNED RELEASES
OF EFFLUENTS. (LIQUID) OR
IN VALVE LINEUP, LEAK, OVERFLOW TANK,

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GIBSON - HAVING SO MANY EXCELLENT RELEASE PROBLEMS, INTENSIFYING ACTION AGAINST IT. DESIGN PROBLEMS - CAUSE.
RELEASE IN STORM DRAINS TYPICAL.

THIS WAS A PROBLEM AT TMI.

GREGG - RO-III WAS HAD ITS SHARE OF UNPLANNED RELEASES, TOO.

NEELY - RO I DITTO.

NO SIGNIFICANT HEALTH & SAFETY PROBLEM BUT IS AC PROBLEM.

ONE PLANT (PULASKI BOTTOM) KNOWN FOR UNPLANNED GASEOUS RELEASES.

MURRAY - RO-IV. RECOGNIZES PROBLEM - MOST PATHWAYS IDENTIFIED. HAVE HAD LICENSING ANALYZE (COMPOSITE SAMPLES) STORM DRAIN SUMPS.
SOURCE PROBABLY STEAM GEN & TURBINE BLDG.

GIBSON - LOOKING AT PROCEDURE CONTROLS (VALUE CHECK LISTS) AUX OPERATORS ARE USUAL CULPRITS. LEAST TRAINED.
HYDRO TEST ON SYSTEMS.
TEST UNDERGROUND PIPING. VENT HEADERS.

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NEELY — NOT LOOKING AT RAD WASTE SYSTEMS
TREATMENT LIKE THEY SHOULD

GIBSON/MURRAY — HP^{TECH} NOT INVOLVED IN
WONSLAWSKI TRANSFER OF LIQUIDS IN TANKS
IN PLANT.
HP TECHS DON'T HAVE KNOWLEDGE
OF SYSTEMS.

NEELY — MOST UTILITIES DON'T HAVE
RAD PROT DOING RAD WASTE.
ONLY ONE PLANT, OTHER THAN
TMI, WHICH DOES IN RO-I.

MURRAY — QUIRK IN TECH SPECS — ONLY
TIME THEY SAMPLE IS JUST
PRIOR TO DISCHARGE.

GROBE — SOME PLANTS IN RO-V DO SAMPLE
AS LIQUIDS ARE ADDED TO TANKS.
SOME DON'T, BUT THESE HAVE LOW
ACTIVITIES.

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PERSONNEL DETON FACILITIES -

GIBSON - ALL UTILITIES HAVE DETON FAC
WHICH CAN BE USED DURING NORM.
OPNS.

EMERGENCY PERSONNEL
PLANNING FOR DETON SHOULD
BE MADE BY LICENSORS.

MURPHY - NO OFFICIAL NRC CONTAMIN
LIMITS FOR RELEASE FOR
REACTORS.

EMERGENCY PLANNING - See Summary

MURPHY - NORMALLY INSP. LOOKS AT
TRAINING OF EMERGENCY ASSISTANTS.
DOES NOT CONSIDER DRILL AS
TRAINING.

WENSLAWSKI - EMERGENCY TEAM COMPOSITION
DEPENDS ON WHO'S ABOARD
AT TIME OF EMERGENCY.

GIBSON - DOES NOT CONSIDER DRILLS AS
TRAINING.

~~Wonslanski~~

ENVIRON MONITORING - See transcript.

Wonslanski - ENVIRON MONITORING REQUIRED BY NRA. WOULD BE EXPECTED TO BE SIMILAR AT EACH PLANT, EXCEPT FOR OLDER PLANTS.

CONSULTANT AUDITS OF RPD PROGRAM.

Wonslanski - NO AUDIT OF UTILITIES IN REGION V DONE THIS.

Gregor - DITTO. CORPORATE PERSONNEL DO AUDITS OF UTILITIES. TECH SPECS RPD WORK ON THIS AS IS NOT A "SAFETY" ISSUE. QUALITY OF AUDITS QUESTIONABLE NO CRITERIA IN TECH SPECS.

WELLY - REG. I. REQUIRED INDIAN BY TO ACQUIRE OUTSIDE SERVICES TO UPGRADE R.P. PROGRAM (by NUS) NUS has shown up at Gateway Power Bottom Agency, Oyster Creek. TMI, NUS AUDIT Spin off of Oyster Creek.

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NEELY — OYSTER CREEK R/P PROBLEM
PROBLEMS SIMILAR TO TMI
HAD TO HAVE GE COME IN
TO CORRECT R. P. STAY UNTIL
RAD CHAMBERS WERE TESTED.
PLANT MAINTENANCE PROBLEMS.

AUDITS ARE FREQUENTLY CONDUCTED
BY PEOPLE W/O ADEQUATE HP
EXPERIENCE.

MURRAY — STRONG BELIEVER IN AUDIT PROBLEM
BUT AUDITS HAVE TO BE GOOD
AUDIT (OUTSIDE) NOT OLD STARTED
IN 1975.

TIMELY CORRECTIVE ACTION GETTING BETTER.

NEELY — RO-I. OUTSIDE AUDIT FINDINGS
ARE, AS A RULE, RESPONDED TO.
(BECAUSE OF I-6E PRESSURE).

GROVER — RO-III PLANTS ARE FAIRLY
RESPONSIVE TO OUTSIDE AUDITS.
A COUPLE OF PLANTS, DO, HOWEVER,
DINK THEIR FEET. I-6E INSPECTOR
MAY JUMP ON THEM IF IMPUDENT.

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WENSLAWSKI - GENERALLY LICENSORS ARE
RESPONSIVE TO OUTSIDE-INDENT
FINDINGS. (8)

GIBSON - DOESN'T FEEL OUTSIDE-AUDIT
A PROBLEM IN INDUSTRY.

NEELY - AT TMI THE NUS AUDIT
WAS NOT AS FULL OR DEEP AS
NUS NORMALLY DOES.

DESIGN DEFICIENCIES

INST TO FOLLOW ACCIDENT

STACK MONITORS REQUIRE LARGER RANGES.
NEED LOW RANGE BUT NEED HIGH
RANGE TOO.
IDENTIFIED MANY YEARS AGO.

AREA MONITORS WITHIN CONTAINMENT
ARE NOT UNIFORM IN RANGES OF
RESPONSE. MOST WOULD BE OFF
SCALE IN ANY REAL ACCIDENT.

TMI DOME MONITOR DIDN'T SEE
 XE^{133} , WHICH WAS ISOTOPE OF INTEREST

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INPLANT AIR MONITORS -

SAT. ^{LEVELS} DUE TO DIRECT RADIATION,
NOT SHIELDED FOR HIGH LEVELS.

REMOTE SAMPLING FOR ACCIDENT
ASSESSMENT.

TMJ PROBLEMS WOULD HAVE BEEN
REDUCED IF LICENSEE REALIZED HIGH
LEVELS HE WAS WORKING WITH.
COULD HAVE REMOTE HANDLING TOOLS.
MORE SHIELDING REQUIRED.

GENERIC PROBLEM - C

COMBINED SAMPLING LINES -

MOST UNITS HAVE SEPARATE
SAMPLING ROOMS FOR EACH UNIT.

VENTILATION SYSTEM BALANCE

AUX BLDG VENTILATION NOT
CONSIDERED "SAFETY" RELATED
AND NOT COVERED IN TECH. SPECS.

NOT UNCOMMON THAT VENT PROBLEMS
CROP UP DUE TO DESIGN CHANGES,
MODIFICATIONS, ETC.

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INSPECTORS DON'T LOOK AT IT UNLESS A PROBLEM EXISTS.

GIBSON — NON "SAFETY" SYSTEMS
BROWNS FERRY OPERATED FOR
2 YEARS W/O FILTERS. ~~W/O~~
DOP TEST WAS SAT. after daily hrs
MURRAY ΔP of 0 ΔP of 0 ΔP of 0 ΔP of 0
MURRAY ~~then correct this too.~~

MURRAY — IF NOT A TECH SPEC ITEM,
NRC WILL NOT HOLD V.P. LICENSE
EVEN OVER OBJECTIONS OF I&E.

DOESN'T REALLY CHECK AIR
SUPPLY. (LOWT)

NEELY — INTAKE FANS & DISCHARGE
FAN OPERATION GOVERNED BY
OPERATORS — CHANGES VERT. SYSTEM
CHARACTERISTICS W/O WARNING.

RAD WASTE SYSTEM

SYSTEMS HAVE ALWAYS BEEN UNDERDESIGNED
IN CAPACITY AND EFFICIENCY.

NEED PERIODIC LEAK TESTING, ESP IF
WOULD BE A PROBLEM WITH FAILED FUEL.

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GREGOR - RAD WASTE SYSTEMS ARE NOT
DESIGNED FOR ACCIDENTS.

WESLAWSKI - SOLIDIFICATION SYSTEMS ARE
POORLY DESIGNED. NO TECH
SPECS. HAVE MANY PROBLEMS.

GIBSON - SHOULD DO A BETTER JOB
OF MINIMIZING LIQUID
& SOLID WASTE VOLUMES.
UNNECESSARY DILUTION.
NEED NRC INCENTIVE
TO DISCOURAGE GENERATION
OF LARGE VOLUMES OF WASTE.

NOTE

READ TRANSCRIPT ON THIS -
THERE ARE SERIOUS NRC
PROBLEMS WITH RAD WASTE
SYSTEMS NOT BEING REVIEWED!
SURELY

RON

GREYER - WATER MANAGEMENT POLICY OF
PLANT IS IMPORTANT FACTOR
IN PRODUCTION OF RAD WASTE.

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(12)

PLANT LAYOUT FOR EGRESS & INGRESS -

GIBSON - COVERED IN PREOP INSPECTOR,
BUT BY THEN, TOO LATE.
NOT REVIEWED BY NRC

WENSKI - DEPENDS ON PARTICULAR
REVIEW.

GIBSON - UTILITIES DON'T USUALLY
VOLUNTEER TO PUT UP
DOORS ON HIGH RAD AREAS.

HIGH RAD LEVELS IN ANX BLDG - TMLT. LIFE THREATENING SITUATION.

GIBSON - MET TO WAS EXTREMELY LUCKY
NOT TO HAVE VERY HIGH GROSSSES -
GREAT PROTECTION FOR HAZARDOUS
EXPOSURE. ACCESS CONTROL WAS VERY
1000 R/hr WAS LIFE THREATENING.

SPACE FOR HEALTH PHYSICS INSTRUMENTATION
ETC. FOR EMERGENCY SURVIVAL IS
AT A PREMIUM, AND IS USUALLY NOT
ALLOCATED DURING DESIGN OF FACILITY

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FOR OUTAGES

STEP OUR FACILITIES ARE NOT
USUALLY DESIGNED FOR.

MANAGEMENT OF RAD PROT.

GIBSON - THIS ON LOW END OF SCALE -
RAD PROTECTION RECEIVED
LITTLE MANAGEMENT SUPPORT.

WORSUMSKI - NOT UNCOMMON FOR RAD PROT
PERSONNEL TO FEEL MARGINAL
IF PRODUCTION QUANTITY AND
R.P. IS GETTING SHORT ON
OR STUCK.

GROGAN - R.P. SUPERVISION POORLY
HE'S SOON.
CORPORATE R.P. CAN'T REALLY
SAY, BUT NOT MUCH LOWER THAN
REGION III.

MERY - OYSTER CREEK & TMI HAD
SAME PROBLEMS. MANAGEMENT
OF R.P. REGION VERY GOOD.
OYSTER CREEK HAD A MAJOR
PROBLEM W/ SUPERV. OF R.P.
NOT QUALIFIED. NEVER MET OUT OF INTO
PLANT.

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(14)

NEWMY - TMI RP forum didn't meet ANSI standards.
Engineering support to RP Dept. just out of school.

/// DURING 1ST DAY, DUBIEZ SUPPORTED MORE OPERATIONS THAN RAN THE HP PROGRAM

MURRAY - MOST IF NOT ALL PLANTS IN REGION IV ARE OPEN.
OVERCOOL.

GROVER - AT LEAST 2 PLANTS IN REGION III WHICH ARE RUN BY JOURNAL HPs.
One has an extremely good RP program, one does not.

OVERALL RAD PLOT PROGRAM

GIBSON - TMI BELOW AVERAGE w/RO II.

NEWMY - TMI VERY LOW ON SCALE