July 15

New England
Citizen's Awareness Network

Al Nelson

Sta Richards
Framework for regulatory oversight.
Feedback on TWG report

Mike Misner
1. How do we calculate seismic
" " " deal with human error

Majority (in audience) will not benefit

Treating front ~~in~~ end of Decommissioning

Gary Holahan
Big Picture - How we got here in tech sense

Lot of issues
How reliable are HA (Human actions) over days?

Risk in to decommissioning is right way to go

Clean slate

Reactivity accidents

Q/7 8

Take all issues & focus on issues of most importance.

Our first shot at SFP issues

Have we missed issues
Over or under estimated issues (about right)
Can things be done to mitigate
[Already being done or could be done]

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Rich
Welcome & hard work

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Paul Gunther
One item is absence
- Intentional events – Bombs (Sabotage & Terrorism)

☆ Paramount issue

Gary
Is there something technically that we are missing that is important to safeguards?

Paul
Industry & NRC is backing away from DSRE. Level of security at decommissioned plants. Should be part of risk.

Ray -
Sabotage - Risk informing - best
Principle subject - ~~continued~~ continually narrowed focused of issues.

Fire scenarios
resin
waste storage bldg / truck load waste
Look at these scenarion & consequences

NRC seems to have backed into it
No rulemaking petition by NEI

Don't know the ground rules

Glen
Did not look at design basis events.
Only looked at beyond design basis events

Gary
2 Points & 1 ~~comment~~ commitment
1. Why safeguards is not in risk
2. Be complete on evaluation

** Some safeguards section in our report - why we didn't address some issues.
Why we only looked at high consequences.

Ray
Consequence

Ray (cont)
Risk info whole rule not just SFP

Gary
Deal with high probably low consequence or high consequence low probably

Glen
~~Co~~ Full uncovery leads to Z fire
→ Assume can't take mitigative actions
SECY ~~discu~~ discusses taking mitigative action for adiabiatic heat up.

Ed Burns NEI

Agree staff report is upper bound
[Never put in writing]
— Questioned lack of mitigation link between fuel uncovery & boil down event

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Dave Lochbaum
1. Future safeguards - overall decommissioning

2. Protect plant ~~works~~ workers

3. Human performance
Bad management - problem plants in past How will this be factored in ~~in~~ for decommissioned plants.

Gary
Organizational breakdown - Part

Worker ~~does~~ dose - Gary wants to think about - consider what we should

~~Ray~~

Gareth
Best Estimate

Gary
Independent Quality Review

Mike
Generic HRA

Noon
Gary
descrete - Independent shifts.
We all want operators to do ~~with~~ job

What do we expect of utilities to do to

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Afternoon session
Rich - 3 questions
1. Manner you document presentation?
What is important.

Rich (cont.)

2. Two interesting presentations by NEI
Relationship between both presentation?

Mike Misner
Rough PRA by NEI reflects presentation by NEI in afternoon.

3. ~~Now~~ As we go forward we're talking about new rules + we need to ~~make~~ ~~sure~~ sure things

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George MY

Operator Attentiveness
Go assess operators

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Break ~~4:15 PM~~ restart 4:15 PM

Rich
1. Preliminary - opportunity for What industry thinks is important

2. How close are we to ~~resol~~ resolution
Care
Operator
Equipment
NRC take info + bounce against model
Greatest impact on our analysis +
Say that our analysis
How factors effect, to extend possible
requantify some

requantify not necessary
how there into
~~So~~
hopefully some requantification
come back to stakeholders with important

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Mike
What is an acceptable level

Rich
Depends on ~~decision~~ decision you are making. R.G. 1.174 may be acceptable to some extent.
No hard & fast criteria

Rulemaking

Mike
It is essential that report be finalized
Requantify report - not negotiable
Even handed & not upper bound
~~Be~~
~~Perseption~~ Perception on
Model put together in biased fashion
They want to know what ~~a~~ reduction in risk is gained by particular commentments

Rich
Will make every ~~atten~~ attempt to requantification

John Z
Requantification may not be best use of NRC resources.

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July 16, 1999

Gary
Requantify non HRA issues

Then we know our expectations are for the operators.

Comm
Will requantify to the state of the art. Have experts tell us how far to push

Resources, Time, money

* Look into aircraft for more info

Ray
Lot of new information that staff has listed. Should include

Heavy load drops - other heavy load drops
seismic walls

Critically - systems not segrated
chemically stripping - loss of SFP
coolant - do you

Risk P to this & other events.

~~Not fully~~ Critically issue & chemical
aspect

Ed Burns
Tact Ed would take
Add (1) Relate industry practices that
are most important

(2) Quantative - sequences that
are most important
when ~~Truncate~~ you can
Truncate sequences since
they are too.

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Seismic 9:00 AM

Gen Tom
Demands ~~of~~ on structures
~~Capability~~ of structures
Capacity

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Tom O'Hara

Ray Fragility of Transfer ~~Table~~ tube

is it included in fragility
Gautam - says did not
• Bldg may be ~~dropped a~~ dropped over
SFP - Non-seismic event

Peter:
Seismic - evaluation
1. Qualification of equipment & aging of equipment including concrete
2. Failure of electrical equipment
3. Failure of systems to mitigate event
4. How about liner?
5.

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Mike
Good deal of convergence
Check list good idea

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Heavy Loads

Ed Throm

Bill Henries
Upper bound versus best estimate.
Lost 2 orders of magnitudes

2 parts two blocking, overload, stops
Is upper bound 5

5 to 25 we used 25 upper factor

Industry did implement ~~six~~ 0612

Human error data

Ed Throm

Mike
Good test case for heavy
0612
Should go away by inspection
Should a factor of
Credit licensee implementation

Consequence ~~analysis~~ analysis —

No search

0612

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Credit 0612 Existing

3rd Item

~~T/H 7/16/99 PM~~

Heavy Loads Segment Closeout

Assume DG12 - NRC give appropriate credit

T/H 7/16/99 PM

KK Niyogi

Gary
How do we use T/H data

2 Different T/H calculations
~~Time to~~ Heat up temp
Critical Time

Mike - Red Herring - Not Risk Informed
Focus on risk not T/H

Gary
Don't do with consequences
After no Z fire no consequences

Special to no Zirc Fire
Before & After
Good common sense

# Wrap up

Mike
Willingness for commitments to drive high risk

Areas of commitments
Hardware - seals - redundant - self limiting
anti-siphon devices
prestaging diesel fire pump.

Software - Procedures

Heavy loads - real easy
NRC ~~#~~ resolved in 1353 just use 1353 results 3 orders of magnitude

HRA requantification issue
not necessary

Industry - Must requantify

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Proposal
Reasonable Do schedule & get to industry
Detailed ~~phan~~ plan for next few months
HRA
Credit for heavy loads
Seismic
Work with sam Brian
Periodic Management meeting (Monthly?)

HRA not necessary

Becoming RES project

~~Bow with~~ Work with NRC on early bases

Delay vote for 30 days by Commission

Yes, we give decision in short term — Heavy loads - actual final decisions in a couple of weeks with credit They will get & Bill Henries upper bounds, 0612 Requantify

Industry get check list for seismic

Industry will ~~the~~ Take model & requantify for NRC

Yes-practically — Give industry Model

yes — Identify Tiger Team & run problems into ground - Targeted meetings on specific issues

Sufficient information provided to adjust draft report but 2 orders of magnitude off.

DO — Will reluctantly support HRA meeting given done in short period of time

Brian Sheron
Different perspective then Misner
NRC doesn't accept on spot.

Information gathering
Take information & review

Do now
How to go forward
Agree to disagree

Resolve GI Assessed & could or could not support backfit.
Fact~~or~~ that we resolved GI doesn't make risk ~~=~~ 0

Don't agree that we are turning HRA into Research project.

Complete by end of year as final draft
[Does this meet our schedule or does it move it up?]

Ray
Anything written as far as Commissions expectations.

May be going down wrong road.

Peter — consider in report

Seismic — & concrete aging & PRA numbers

Damager of ~~Ratio~~ Radiation

Criticality — why non issue

Consequences - of drain down

$\bar{P}$ of TMI

What PRA cutoff point
$10^{-6}$ in Ramussen - Basis for $10^{-6}$ number

Would NRC accept Total Black out
I&C lights in SFP area

~~Heavy load in~~

Gary

Why is concrete just as good at 40 & 45 years

Safeguards

→ Detail Plan

Bob Kennedy look @ NEI & Bautam's seismic check list.

Will we accept SBO at plant

Which DBA requirements to retain & get rid of.

Technical Recommendation of design basis needed - High Level