

3 Q I assume you had some involvement
4 the recovery unit following the accident,
5 is that correct?

6 A Yes.

7 Q Can you describe generally what
8 your involvement has been?

9 A It doesn't have a title.

10 Q If you could describe it.

11 A I set up a system for authorizing the
12 Unit 2 change modifications. Burns & Roe developed
13 about three file cabinets of design documentation
14 since the accident, and we wanted very rapid
15 review and accomplishment of these modifications.

16 So I set up this specific system for it,
17 and then followed it up since then to see that
18 the system was being followed.

19 I continued to administer my ^{sections} perceptions
20 as assigned. I stand the night manager watches
21 and have various small chores.

22 Q What are the night manager watches?

23 A During the absence of Jack Herbein from
24 the site at nighttime, we start watches generally
25 about 8 o'clock until 2 o'clock in the morning

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*Trotter - Bus Comm
8/4/79*

POOR ORIGINAL

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1 and then from 2 o'clock until 3

2 We have two managers sequentially.

3 Q And what is the purpose of that night
4 watch?

5 A There has been a rather detailed memorandum
6 listing all the duties of the night manager.

7 We can refollow all the operations and
8 maintenance and see that the important things
9 are done right.

10 We have a log. It is not a great deal of
11 action in the watch.

12 Q Is this something that is contemplated
13 or being done because or as part of the recovery
14 effort?

15 A Certainly.

16 Q Or is it something that is anticipated
17 would become a standard practice on the Island?

18 A It is part of the recovery effort, to my
19 knowledge it will be superceded by a new position
20 being developed of shift engineer.

21 He will not be a manager. We have made a
22 commitment to the NRC to have an engineer with
23 2 to 5 years' experience selected and placed on
24 each shift, with one engineer on the entire Island
25

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2 for both units, and he would improve the technical
3 expertise of the watch.

4 Q In the long-run with the implementation
5 of this shift engineer, what would be the primary
6 reason for having him available, to be able to
7 respond to unusual events?

8 A One of his primary duties would be to advise
9 the shift supervisor of any emergency situation.

10 Q Is the concept to have the shift
11 engineer available on very short time?

12 A Yes, to be on-site and to be available within
13 a phone call, to rush to the control room, so
14 that should there be a problem, he can help with it.

15 Q Would that shift engineer be given other
16 or any administrative duties?

17 A Specifically we tried to design that position
18 to minimize any administrative duties, and to
19 enhance the technical engineering responsibilities.
20 To a large measure it is to be a training assignment.
21 He will be working toward his formal NRC license.

22 Q You mean as a reactor operator?

23 A Yes. In the long-run we should wind up with
24 a cadre of operations-maintenance-experienced
25 engineers.

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2 Q So I take it then that as you perceive
3 the duty of the shift engineer it would primarily
4 be to study, except when he is needed as a
5 consultant?

6 A As a primary duty. We have a long list of
7 things for him to do -- trend analysis, troubleshooting.
8 specific chronic problems, gathering data for immediate
9 problems to give to the non-shift engineers on-site,
10 following up on the implementation of change
11 modifications, training on shift personnel in
12 specific technical areas, items best taught by an
13 engineer, such as heat transfer.

14 Q So the effort is then to keep the
15 engineer involved in working with the mechanics
16 of the system, rather than in pushing paper?

17 A Correct.

18 Q Going back to your role during the
19 recovery, you said you set up a system for
20 authorizing the change modifications during the
21 recovery?

22 A Yes.

23 Q And why was that necessary? Was it
24 simply not possible for PORC to do that?

25 A No, we still kept PORC reviews in the chain,

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Troffer - Pres Comm

8/4/79

P6 / 20 ^{October} until 78 Tsaggaris - headed up all of training in Generation - including fossil plants corporate technical support staff of all of TMI training functions

P7 / 5 Nov 78 Zechman ^(with his instructions) reported to Troffer performed primarily regulatory safety-related training at TME, plus some others, primarily to get people licensed & maintain their licenses

7/22 (Troffer was in Reading)

8/15 troffer in control of Licensing training at TMI ^(vs Truskis) - VP ^(Herbain) had to be personally in charge and very much in control of the license training because of its importance to the operation of the plant

10/19 troffer - administrative job & people, sort out training priorities

11/12 Zechman made ~~so~~ the "billion little decisions" but: "Zechman was so tied up in his own personal qualification that we had to have other people head up the organization" started working with them.

11/22 Wanted to turn "Zechman and his ~~go~~ entire gang, over to Dave Limroth" - but on 1/1 Herbain said no Limroth was too busy tied up learning HT Troffer explained that in absence he "wasn't able to perform a very good job of detailed guidance that it really needed out here," but Herbain thought it was still the lesser of 2 evils.

12/0 training program developed by Seelinger 5/72, 73 then Tsaggaris took it over at the Island - he had Zechman job & then he was promoted Corp Tech Support Staff in Reading

12A/15 Trotter developed maintenance training - tried to increase maintenance personnel's technical understanding of what they were doing

DAN SHOVIN - maintenance training (- through a system training department)

14/8 Self study program - barely under way at the time of the accident - materials were assembled by an outside contractor

41/10 GRC only reviews TMI-2 LERs

119 Dave Hoffman reviews NRC - circulated proposals - would (but didn't) bring up LERs from other plants to GRC (subcommittee of GRC)

43/5 "we received true reports, a third large number of items, and to do a thorough job of researching applicable to our plant and following would have been a very considerable effort, and it was one that we never mounted

The reviews were more a chance to see items of interest,

46/7 Received verbal + written documentation from B&W on problems experienced elsewhere and were given advice and recommendations, - not sure of ^{the extent of} B&W's ^{found} ^{work}

47 Potts + Hilbish attended B&W owners group meeting - middle level management

5. Recall 2 1958 Ruckover training program - made aware (informal discussion) of the possibility of transferring the bubble from the pressurizer to elsewhere in the reactor loop - perhaps by mechanism of stuck open relief valve - draw down the pressurizer and go below saturation and pressure elsewhere would form a bubble elsewhere

During training program by people in the training program

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Winnick Day Exhibit 23

- 54/18 Didn't have a prepared procedure for the bubble transfer -
but did for most major accidents that could happen
- 55 No discussion of this event scenario when at mtg Ed +
with BSU before 3/28/79
- 61 3/8/79 special GRC meeting exhibit #98
Miller station mgr - report direct to Heblin
vs through the Operations Mgr
also changed relationships of
Supt. of maint
unit Supt.
Security
G.C.
all organizational elements on the
island
- 63 LER didn't need GRC OK pub. to finding out
Tech Spec Change did
- 70/11 Exhibit 100 p 2 item V
audit team was concerned about the
lack of administrative procedure which specifies
the responsibility for identifying "the identification,
review and following of non-routine, and reportable
events."
- 87/1 50.55E ~ 10CFR 21 discussion
- 85 ^{new position} shift engineer 7 2-5 yrs exp
- 86/17 minimize admin duties - enhance the
technical engineering responsibilities. To a
large measure it is to be a training assignment.
He will be working towards his formal NRC
license. - both
- 123 In the long run we should wind up with a
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