PRESIDENT'S COMMISSION ON THE ACCIDENT AT THREE MILE ISLAND

DEPOSITION of METROPOLITAN EDISON COMPANY by

PAUL G. CHRISTMAN, held at Three Mile Island Nuclear

Generating Station, Harrisburg, Pennsylvania, on the

2nd day of August 1979, commencing at 3:30 p.m.,

before Stephen McCrystal and Stanley Rudbarg, Notaries

Public of the State of New York.

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BENJAMIN REPORTING SERVICE

FIVE BEEKMAN STREET
NEW YORK, NEW YORK 10038

[212] 374-1138

- 2 DIRECT EXAMINATION
- 3 BY MS. GOLDFRANK:
- Will you state your name and spell it for
- 5 the record?

- 6 A Paul George Christman, C-h-r-i-s-t-m-a-n.
- 7
 Q Your present address?
- 8 A Box 169, Rural Route 3, Hamburg, Pennsylvania
- 9 19526.
- 10 Q Your present employer?
- 11 A Metropolitan Edison.
- 12 Q And your present position there?
- 13 A Manager-Generation Administration .
- 14 Q You brought with you today a resume that
- 15 we have marked as Christman Exhibit Number 89, correct?
- 16 A Yes.
- 17 Q Did you prepare this resume?
- 18 A Yes, I did.
- 19 Q When did you prepare it?
- 20 A About a week ago.
- 21 Q You graduated from Pennsylvania State
- 22 University with a BS degree in Civil Engineering in
- 23 1957, correct?
- 24 A That is correct.
- 25 Q And you attended the University of Michigan

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- 2 in 1976, their Graduate School of Business Adminis-
- 3 tration, correct?
- 4 A Correct.
- 5 Q Did you receive a degeree from there?
- 6 A No, a certificate of completion of that pro-
- 7 gram.

- 8 Q How long was that program?
- 9 A The program was four weeks.
- 10 Q And it specialized in public utilities?
- ll A Public Utility Executive Program. It was pri-
- 12 marily a Financial Accounting Program. Its emphasis
- 13 was in the financial accounting areas.
- 14 Q Did you attend that program at the Univer-
- 15 sity of Michigan at the suggestion of Metropolitan
- 16 Edison?
- 17 A Yes, I did.
- 18 Q Were you in the United States Navy Reserve?
- 19 A I was commissioned a reserve officer. I went
- 20 through the NROTC Program at Penn State, and immediately
- 21 upon graduation from college, I was commissioned as
- 22 an ensign in the United States Navy Reserve.
- 23 Then I served on active duty for two years
- 24 and I have continued my affiliation with the Reserve
- 25 Program ever since.

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- 2 Q After you graduated from Penn State in
- 3 1957 you then served two years active duty at that
- 4 point?

- 5 A Yes.
- 6 Q And then after your two years active
- 7 duty you then came to work for Metropolitan Edison?
- g A That is correct.
- 9 Q Your resume indicates that your initial
- 10 position here was as civil engineer cadet, correct?
- 11 A That is correct.
- 12 Q And was that at Three Mile Island?
- 13 A No, ma'am, that was in Reading at the Corporate
- 14 Headquarters Building.
- 15 Q Were you involved at all at that time
- 16 with the design or construction of Three Mile Island?
- 17 A No, not at all.
- 18 Q What were your responsibilities?
- 19 A In the cadet engineering position, it was really
- 20 a training position for future assignments into the
- 21 Transmission Engineering Department.
- 22 I was being trained to design transmission
- 23 lines. I spent a couple of years sort of in training
- 24 before I got my next assignment.
- 25 Q Which was in May of 1961 when you became

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- 2 a project engineer in that field?
- 3 A Right, in the Transmission Engineering Depart-
- 4 ment, and at that time I designed transmission lines.
- 5 Q In 1966, March of 1966 you then became
- 6 a supervisor in Transmission Engineering?
- 7 A That is correct.
- 8 Q Then in February of 1973 you became a
- 9 supervisor in Operations?
- 10 A Yes. That was in the Central Division of our
- 11 company, again headquartered in Reading, and I had
- 12 functional responsibility for several departments, the
- 13 Relay, Meter, and Dispatching Departments.
- 14 That is a Transmission and Distribution
- 15 kind of Operations job as opposed to a Generation
- 16 Operations job, okay?
- 17 Q In January of 1974 you then became director
- 18 of Operations Analysis. Could you explain what that
- 19 is?
- 20 A It was a job created at that time; I was the
- 21 first one in that job. And the company, just prior
- 22 to that time period, had an outside consultant in to
- 23 do some consulting work in the areas of productivity
- 24 and to determine proper staffing requirements for all
- 25 the functions in the company.

- 2 One of the recommendations of the consultant
- 3 was that we continued to do this same kind of thing
- 4 in-house with our own people. So I was asked to
- 5 take the job of heading up that department.
- 6 At that time I was given two or three
- 7 analysts that worked for me to basically continue
- 8 the work of that consultant.
- 9 Functionally, if I may add, functionally
- 10 the department was responsible to the comptroller of
- Il the company, and as I indicate in the resume, I
- 12 worked in that job for a period of about four years
- 13 at which time I reported to the comptroller of the
- 14 company.

- 15 Q And then in April of 1978 you became
- 16 manager of Generation Administration, correct?
- 17 A That is correct.
- 18 Q And that is the present position you hold,
- 19 correct?
- 20 A That is correct.
- 21 Q Has the one course that you indicated
- 22 you took at the University of Michigan in 1976, has
- 23 that been the only formal training you have had since
- 24 at Metropolitan Edison?
- 25 A No, I have attended several in-house Supervisory

- 2 Programs. I think over the years I probably attended
- 3 two of those programs.
- I have also instructed in those programs
- 5 too.
- 6 Q And those would have been programs offered
- by the Training Department?
- 8 A The Training Department back in Reading, the
- 9 Corporate Training Department.
- They were generally two, three, four
- 11 week kind of programs, not continuous weeks at a
- 12 time, but we may be brought in for one week and then
- off for a couple of weeks, and then back.
- 14 Those were primarily a familiarization
- with all company functions, and also it was an awful
- 16 lot of management development kind of subject matter
- 17 presented to the trainees, all done in-house, by
- 18 in-house people.
- 19 Q How often have you instructed those
- 20 programs?
- 21 A I instructed in two of the programs, but my
- 22 capacity there was to come in and speak to the
- groups on my functional responsibility at the time.
- 24 I recall instructing as supervisor of
- 25 Transmission Engineers, at which time I was coming

- 2 before the group to explain what Transmission
- 3 Engineering was all about, what my job responsibi-
- 4 lities were, what Transmission Engineering was all
- 5 about.
- 6 I do the same thing in the capacity as
- 7 director of Operations Analysis. I came before the
- 8 group and explained to them the purpose of the
- 9 function, what we were doing, how we were doing it,
- 10 why we were doing it, things like that.
- 11 So I think I may have talked overall 20
- 12 or 30 times in both of those programs before in-house
- 13 groups of employees.
- 14 Q Prior to March 28 was your office in
- 15 Reading?
- 16 A Yes, ma'am, it was in Reading.
- 17 Q Could you explain what the responsibilities
- 18 are.
- 19 A As manager of Generation Administration?
- 20 Q Yes.
- 21 A All right. In the staff in Reading I had the
- 22 group of people that was responsible for Generation
- 23 personnel and Generation budgeting, Generation
- 24 safety, Generation stores, document control, records
- 25 retention, I had a procedure coordinator, I had an

- 2 administrator who was the Generation representative
- 3 to the COMEC Committee -- COMEC standing for Construction
- 4 Operation and Maintenance Expenditure Control System --
- 5 and I had the offices services function in the corporate
- 6 generation office -- that is primarily the clerical
- 7 staff and stenographer staff that supported the rest
- 8 of the corporate technical support staff. I think that
- 9 is it.
- 10 Q As manager of the Generation Administration,
- ll who do you report to?
- 12 A To the vice president of Generation, Jack
- 13 Herbein.
- 14 Q And Generation deals solely with nuclear
- 15 power plants?
- 16 A No, ma'am. He had responsibility for fossil
- 17 and nuclear. We support both the fossil and nuclear
- 18 plant from the corporate headquarters.
- 19 Q Was the vice president of Generation
- 20 located in Reading?
- 21 A Yes, ma'am.
- 22 O How often would you, prior to March 28,
- 23 have come to Three Mile Island?
- 24 A When I took the job in April of 1978 I came here
- 25 for six weeks solid in the Training Program, and the

- 2 purpose of that was to familiarize me with the plane,
- 3 with the plant system, with the plant people generally,
- 4 what was going on here at TMI.
- 5 After that six-week Training Program, I
- 6 would normally get out here possibly once or twice
- 7 a month to deal with people that I had to interface
- 8 with in an administrative function out here.
- 9 A lot of my responsibilities that I had
- 10 in Reading have paralled groups of people here at
- Il TMI that do the exact same thing, personnel, budgeting,
- 12 document control, so in my visits to TMI I would have
- 13 to work with those people in those particular function-
- 14 al areas.
- 15 Q The training that you got when you in-
- 16 itially came here for the first six weeks that you
- 17 were manager of Generation Administration, was that
- 18 training in a classroom or was that just training
- 19 to become familiar with the setup here?
- 20 A It was a self-study kind of program. It was
- 21 designed that I would study all the systems in the
- 22 plant, both secondary and the primary systems, and
- 23 I took exmainations on those systems.
- 24 I actually traced them out, became familiar
- 25 with them, and then took some examinations. Those

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2 examinations were administered by the Training people

- 3 here at TMI.
- 4 In addition to that, I was scheduled to
- 5 meet with all the department heads and all the
- 6 functional heads of all the functions here at TMI
- 7 during that six-week period.
- 8 The purpose of that was to first get them
- 9 to know me a little bit better and for me to get
- 10 to know them and to find out what each of those people
- ll were doing.
- 12 Q You are not licensed on either Unit 1
- 13 or Unit 2, right?
- 14 . A No, ma'am.
- 15 Q Have you ever had a reactor operator's
- 16 license?
- 17 A No.
- 18 Q How often would the people that are
- 19 parallel in responsibility that are on site come to
- 20 Reading to meet with you?
- 21 A I would say also once a month, twice a month,
- 22 possibly.
- I was in consultation with those people
- 24 by telephone. I would suspect there wasn't a day
- 25 that went by that I hadn't talked to one of the people

2 out here who was responsible for one of the admin-

- 3 istrative functions.
- 4 We hired a superintendent of Technical
- 5 Support and Administration late in 1978 and after
- 6 he got in place in this job, I think I talked to him
- 7 practically ever day of the week.
- 8 So we had a very close communications
- 9 by telephone, but those people, to answer your question,
- 10 those people probably came to Reading once or twice
- Il a month. We would call special meetings for special
- 12 projects or things that were going on, so I got to
- 13 see them pretty often.
- 14 Q Your resume indicates that one of your
- 15 responsibilities is procedure coordination. Could
- 16 you explain what that is?
- 17 A I have an employee back in Reading who is
- 18 responsible to receive written procedures. These are
- 19 primarily Generation procedures and Administrative
- 20 procedures as opposed to the Operating procedures.
- 21 These are coming from or being originated
- 22 by people in the corporate headquarters or people at
- 23 either the fossil or the nuclear plants, and my
- 24 procedure coordinator is responsible to receive the
- 25 initial draft of those procedures and then jointly we

2 select the reviewers and those are in-house reviewers

- 3 who we think should review that procedure.
- We distribute them and get comments back,
- 5 redo the procedure and then finally get it approved.
- 6 So my responsibility is to make sure that
- 7 procedures were getting written, reviewed, approved,
- 8 and properly distributed to the field.
- 9 What kind of procedures are you talking
- 10 about?

- ll A These could vary, primarily Administrative
- 12 procedures, how we conduct the business on a day-to-day
- 13 basis. They vary from how we request vacations to
- 14 procedures which would cover auditing kinds of pro-
- 15 cesses, but most of our procedures were administrative
- 16 in nature.
- Now, may I continue?
- 18 The girl that has that particular job
- 19 also receives, has reviewed, has approved Operating
- 20 procedures from the fossil plants, because in the
- 21 fossil stations we don't have as many people as we
- 22 do here at the nuclear station who become that much
 - 23 involved in procedures. There are only one or
 - 24 two people at the fossil plants that really become
 - 25 very much involved with procedures at all, in the

- 2 formulation of procedures, I should say, as opposed
- 3 to a place like Three Mile Island where we have
- 4 a great many people who become involved in the formu-
- 5 lation of procedures.
- 6 So my corporate employee also served a
- 7 function to have reviewed and approved some of the
- 8 fossil operating procedures. That was unlike what
- 9 we did, the services that we provided for TMI.
- 10 And so in addition to the Administrative
- Il procedures -- and they could be again about any
- 12 subject at all; it is basically an in-house kind of
- 13 procedure where we are going to set up some steps
- 14 as to how we are going to do something.
- In addition to doing that for our total
- 16 Generation Division, we did do some Operating procedure
- 17 work for the fossil plants.
- 18 Q Are the same Administrative procedures
- in effect for all the plants?
- 20 A Some are applicable across the entire Generation
- 21 Division. Some are applicable only for nulcear plants,
- 22 some for fossil plants, and some are applicable only
- 23 to the corporate headquarters people -- and the pro-
- 24 cedure itself would indicate whose procedure this
- 25 is, who has to follow this particular procedure -- so

- 2 we have a variety. Some were written for everyone,
- 3 some were written for specific groups of people.
- 4 Q With respect to the procedures that were
- 5 written for the nuclear plant, would they be applicable
- 6 across the board for all the nuclear plants?
- 7 A Well, we only have TMI within Met Ed generation.
- 8 We only have TMI, the one nuclear station.
- 9 Q But would the same procedures apply for
- 10 Unit 1 and Unit 2?
- ll A Yes.
- 12 Q And are those procedures drafted in Reading?
- 13 A They could be drafted by somebody out here.
- 14 They could be drafted by anyone in the Generation
- 15 Division, whether they be at corporate headquarters in
- 16 Reading or the nuclear plant or the fossil stations.
- 17 It depends a little bit on the subject matter.
- 18 I think there is a GP, Genration Procedure,
- 19 on fire protection systems for TMI. That procedure
- 20 was drafted out here, then reviewed by a series of
- 21 reviewers which I would suspect came from here and
- 22 from the corporate staff, and then approved by the
- 23 appropriate managers and the vice president of Genera-
- 24 tion.
- 25 So in answer to your question, it depends

- 2 on the subject matter of the procedure. The initial
- 3 draft could have really been someone from any of the
- 4 locations.

- 5 Q But with respect to Administrative pro-
- 6 cedures, you would coordinate the review of those
- 7 procedures?
- 8 A Yes.
- 9 Q So that the initial draft could come from
- 10 anywhere but it would go through your office?
- 11 A That is correct.
- 12 Q Would you be involved with that review?
- 13 A I would be selected as a reviewer on some of
- 14 the procedures and not on others. It depended, again,
- 15 on the subject matter.
- 16 Q Who would make the assignment as to
- 17 who would review those?
- 18 A The procedure coordinator who worked for me.
- 19 Q And is there a method by which that assign-
- 20 ment is made?
- 21 A Well, not a formal method. I guess, again, we
- 22 look at the subject matter and pick the appropriate
- 23 people within the Generation Division who we think
- 24 should review that procedure and assign them as
- 25 reviewers.

- Now, in a lot of cases, the person who
- 3 drafts the procedure to begin with may suggest to
- 4 us who they think should review the procedure and
- 5 we will most likely accept their recommendation and
- 6 make sure that the people that they have suggested
- 7 review that procedure become reviewers. But by
- 8 and large, again, it depends very much on the subject
- 9 matter.
- 10 We take a procedure and look at the
- 11 subject matter of that procedure and then pretty much
- 12 decide, amongst one or two of us back in Reading,
- 13 who should review that procedure.
- 14 Q Is there any periodic review of all these
- 15 procedures?
- 16 A Yes, there is a bi-annual review for all pro-
- 17 cedures.
- 18 Q How is that undertaken?
- 19 A The procedure coordinator has a tickler system
- 20 by which she is aware when a bi-annual review is
- 21 required for each and every one of those procedures.
- 22 When that time occurs, she automatically sends that
- 23 procedure off for review, again, to the people we
- 24 think should review that procedure.
- We go through the same process on that kind

- 2 of review as we do on the initial draft. We put it
- 3 Out for review, we get the comments back, we incorporate
- 4 the comments into a final draft and again, we may
- 5 do that once, twice, three times. It may go back to
- 6 reviewers several times before it is finally approved,
- 7 but there is a bi-annual review required for all
- 8 generation procedures.
- 9 I might mention also that when we are
- 10 aware of either a change in the organization or what-
- Il ever it might be that requires an update to a pro-
- 12 cedure and we are conscious of that fact, we then
- 13 try to get that procedure updated and reviewed and
- 14 approved when that change occurs. We don't always
- 15 wait for the bi-annual review.
- 16 We also have a process whereby we can
- 17 issue change memos to a procedure. Those are also
- 18 put through an abbreviated review process and we can
- 19 attach the change memo then to the procedure, but the
- 20 next time that procedure is completely rewritten, that
- 21 change must be incorporated into the procedure.
- 22 The point is that you might find some
- 23 of the GP, Generation Procedures with change numbers
- 24 attached to them. The next time that procedure is
- 25 totally redrafted, that change then would be in-

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supply management with better cost information which

So COMEC was born out of that need to

- 2 would tie back into the way we budgeted and forecast.
- 3 It started as a rather small project
- 4 whereby we were going to take certain functional
- 5 areas of the company and develop a system which would
- 6 really meet that objective, and as the system developed,
- 7 all functional areas of the company became involved
- 8 in the program and it also became a GPU Service Company
- 9 program.
- 10 COMEC, I think, was born probably three
- ll or four years ago. COMEC has gone through several
- 12 phases, identification of needs phase, a feasibility
- 13 study phase, some preliminary design phases, some
- 14 final design phases, and as of this day we still have
- 15 not implemented this whole system.
- 16 We have taken pieces of it, though, and
- 17 have redesigned some of our documents to capture the
- 18 information that we require to properly manage the
- 19 business. We have changed payroll systems, for example,
- 20 and we now require employees to record certain
- 21 information in their payroll time sheets which we
- 22 then will tie back into the original forecasts,
- 23 budgets, that we develop.
- 24 COMEC became a rather big and rather
- 25 expensive project in the GPU Service Company system.

1 I have one individual administrator who 2 is assigned as the COMEC representative from Genera-3 tion to the COMEC project, and his responsibilities are to make sure that our needs are met in the develop-5 ment of the system. He primarily deals with the other managers 7 and superintendents in Generation and asks them what they want out of that system, what are their particu-9 lar needs, what kind of cost information do you really 10 want back, or what kind of any information do you want 11 back from the system. 12 It is his responsibility to go back and 13 work with other people involved in this system, to 14 go back and crank in Generation's needs. 15 One of the other things that got 16 on, if you will, to the COMEC system is a Generation 17 Maintenance System, and that is simply a way to tie 18 in the actual man-hours and dollars spent on performing 19 maintenance, whether it be preventive maintenance, 20 corrective maintenance, or tech spec surveillance 21

dollars we expected to spend to perform our maintenance.

output that can now be compared to what we expected to

maintenance. The idea there again is to try to get

do in those hours, how many man-hours and how many

22

23

24

- 2 As COMEC developed, we again found
- 3 a lot of different areas in the business where we
- 4 simply needed more information, and that was the
- 5 whole idea.
- 6 Construction Operation and Maintenance
- 7 Expenditure Control is truly what I think the program
- 8 still is designed for. We are still attempting to
- 9 get that cost information back, but at the same time
- 10 we are trying to get some productivity information
- ll back on our workers. We are trying to capture in-
- 12 formation that tells us how long it takes our people
- 13 to do certain things so that we can exercise control.
- 14 Q This is something that is shared also
- 15 by GPU, other parts of GPU?
- 16 A Yes, ma'am. It is a system for the entire
- 17 GPU system.
- 18 Q Are you in charge of budgeting for the
- 19 entire Generation Department?
- 20 A Yes, ma'am.
- 21 Q Could you explain how that fits in with
- 22 GPU?
- 23 A I think so.
- 24 GPU asks us about mid-year each year
- 25 to start working on our next year's operation and

- 2 maintenance and capital budgets, and they put out
- 3 certain guidelines. These come out of the GPU
- 4 Corporate Budget Department.
- 5 The guidelines primarily come into our
- 6 corporate budget people who work for the comptroller
- 7 of the company. They, in turn, come to people in the
- 8 various functions who are responsible to prepare
- 9 these budgets and pass on these guidelines and ask
- 10 us to start the preparation phase for next year's
- Il budget:
- 12 What we then do is go out with directions
- 13 and guidelines to our managers, our station super-
- 14 intendents, and ask them to start developing next
- 15 year's budget, and we will give them target levels
- 16 of expenditure if, in fact, we know what they are,
- 17 and we will pass on to them any other kind of re-
- 18 strictions that they must live with in the preparation
- 19 of their budget, such as "We can't or we will not
- 20 start new programs."
- 21 It could be a variety of things, but
- 22 nevertheless, we ask the superintendents and the
- 23 managers then to start developing next year's
- 24 budget.
- I concentrate on next year, but what we

- 2 really do is try to get them to budget three or
- 3 five years ahead. In fact, the corporate budgeting
- 4 people require that when we submit a budget, which
- 5 we will be doing shortly, for the next year, that
- 6 we forecast our expenditures out five years ahead
- 7 by year.
- 8 We really then go through a series of
- 9 reviews of their input until we get Jack Herbein
- 10 to finally approve next year's OaM and capital
- ll budgets.
- 12 He, in turn, takes the Generation's
- 13 budget and goes with the rest of the officers of
- 14 the company and presents that to Mr. Kreitz, and
- 15 Mr. Kreitz goes through a review and approval pro-
- 16 cess and then Mr. Kreitz takes that budget and pre-
- 17 sents it to GPU Service Company's board.
- 18 After that whole process, we end up with
- 19 an approved budget for the year and we so inform
- 20 all the people that we now have an approved 1980
- 21 budget and here is what it is and what it consists
- 22 of and we put out guidance at that point that says,
- 23 "You have got to live within that particular budget,"
- 24 whatever those guidelines have to be.
- That is the procedure we go through.

- 2 Q How do you get information concerning
- 3 budgets from the Island?
- 4 A On site people?
- 5 Q Right.
- 6 A Here at TMI we have several people devoted to
- 7 budgeting. The Budget Group here at TMI has historically
- 8 been about three people, so I would put out some
- 9 direction to them that starts the process here at
- 10 TMI. They, in turn, will go out and deal directly
- ll with the department heads and the heads of the functional
- 12 areas here at TMI to receive from them their proposed
- 13 1980 budgets.
- 14 So the budget people here at the Island
- 15 primarily do the contacting of the department heads
- 16 on the Island to receive that information and to get
- 17 it back.
- 18 Now, the budget people who are assigned
- 19 here also help them prepare that budget. They will
- 20 provide historical data to them that says "Last year
- 21 you spent so many dollars on materials and supplies,
- 22 so many dollars on transportation, so many dollars
- 23 on payroll," and with that historical information,
- 24 then the department head will forecast what he expects
- 25 to spend next year.

- Now, he has the ability to forecast new
- 3 programs. He may want to do something altogether
- 4 new next year that he has not done in the past, so
- 5 he will simply add that into his budget. He may, in
- 6 fact, reduce his budget based on the fact that he
- doesn't want to do something that he did last year,
- 8 but through a series of reviews that occur here at
- the plant, at the station, the TMI budget finally
- 10 gets presented to Mr. Herbein in Reading. It has
- ll historically worked that way. How we will work it
- 12 this year, I'm not really sure.
- 13 The station manager, though, Gary Miller,
- has always taken all that input that is generated by
- all his people and thoroughly reviewed that before
- it got presented back to Mr. Herbein so that it went
- 17 through a screening process out here.
- 18 One of the things that we concentrate on
- very heavily from a budgeting standpoint here at
- 20 TMI is the refueling costs, because normally we
- 21 refuel Unit 1 once a year, so we went into a great
- deal of effort to identify those costs which were
- 23 associated with that refueling outage and how many
- 24 people were needed, how much material was needed,
- 25 how much time it was going to take to do that refueling.

- 2 Those became rather detailed refueling outage
- 3 budgets, which were a part of the entire TMI budget.
- 4 So primarily, here it was done by some
- 5 budgeting people whom I interfaced with from Reading,
- 6 provided direction and guidance to, answered questions,
- 7 gave some assumptions, but they generally prepared
- 8 their budget out here -- "they" meaning the respon-
- 9 sible department heads.
- 10 Q And they would present it to you, and
- 11 you, in turn, would present it to Mr. Herbein?
- 12 A What we did in the past is all the managers
- 13 -- by the way, there are six managers reporting to
- 14 Mr. Herbein -- would get together for a day or two
- 15 and review all of the plant's budgets, so TMI's
- 16 budget was presented for the first time in Reading
- 17 to all of the managers and Mr. Herbein.
- 18 The purpose of that was, first of all, many
- 19 of us had input into that budget. We supported TMI
- 20 from Reading. Some of our expenses were in that
- 21 budget. Secondly, we were free to ask any questions
- 22 that we might want to ask about that budget, Mr.
- 23 Herbein and the six managers, and so we went through
- 24 a rather long, grueling review of that budget over
- 25 a two-day period.

- We did this for each of the plants. The
- 3 fossil plants went through the same procedure. The
- 4 fossil plant superintendent came in, he presented
- 5 his budget to the managers and to the vice president.
- 6 We asked him questions. He went back and re-did his
- 7 budget and he brought it wack in and we may have
- 8 had a series of three or four meetings until we
- 9 finally take the budget and then present it to Mr.
- 10 Kreitz.

- 11 Q With respect to the budget utilized for
- 12 construction of TMI, was that always a joint Met Ed-
- 13 GPU decision?
- 14 A Yes, and I should point out that my budget
- 15 responsibility was only in the Operations and Main-
- 16 tenance budget. Klingaman, the manager of Generation
- 17 Engineering, is responsible for the capital budget.
- 18 But in answer to your question, that is
- 19 also GPU. The capital budget is Mr. Klingaman's
- 20 responsibility.
- 21 Q How is the distinction drawn?
- 22 A Between the budgets?
- 23 Q Right.
- 24 A The Operation and Maintenance budget is basically
- 25 our day-to-day expenses, and the capital budget is

2 new construction projects or modifications to existing

- 3 systems, capital improvements to the plant. So
- 4 I was responsible, again, for the day-to-day operating
- 5 expense budget, and Dick Klingaman was responsible
- 6 for the project's capital budget.
- 7 Q So with respect to the construction of
- 8 TMI, that would fall under Mr. Klingaman's respensi-
- 9 bility?
- 10 A Yes, ma'am.
- 11 Q Is there some kind of surveillance set up
- 12 to assure that the Administrative procedures that you
- 13 have reviewed and instituted are followed?
- 14 A I think on certain ones the QA, the Met Ed
- 15 Quality Assurance Group performs an audit to make
- 16 sure that the requirements of those procedures are
- 17 met. I'm fairly sure that the QA Department does
- 18 not audit each of the procedures to make sure that
- 19 they are all met, but certain ones of those are audited
- 20 by the QA Department and audit reports are issued
- 21 by them when they find that the procedures are not
- 22 being followed.
- 23 How they make the distinction of which
- 24 ones are audited as opposed to which ones are not,
- 25 I'm not really sure; I can't answer that.

- 2 Was there a budget cut from the 1978
- 3 budget to the 1979 budget for Operations and Main-
- 4 tenance?
- 5 A I don't think so. The question is was there
- 6 a budget cut from 1978 to 1979 budgets?
- 7 Q Yes.
- 8 A I don't think there was. I think that the
- 9 preparation of the 1979 budget, which would have
- 10 occurred in 1978, as I recall, rather late in the
- Il review and approval process of that budget, we did
- 12 make some significant reducations to it, but after
- 13 that budget was declared official and was then used
- 14 in 1979, I don't recall if there was a budget cut
- 15 made to it.
- 16 There are revisions to a budget made on
- 17 a monthly basis. The budget, in fact, is updated on
- 18 a monthly basis, but we generally never revise the
- 19 original official budget. We generally, in budgeting,
- 20 tend to compare ourselves back to the original budget
- 21 that was developed and approved.
- The point is, though, that each month
- 23 we do make revisions to that budget, depending on
- 24 what expenses we have incurred over the month prior
- 25 when we make this revision and some changes as to

- 2 what we might forecast for the rest of the year.
- 3 So in fact, we tried to keep this as
- 4 a living budget, so to speak, so each month the
- 5 latest revised estimate of that budget may have
- 6 been different, but nevertheless, we still would
- 7 go back and compare ourselves to the original budget.
- 8 In answer to your question, I don't recall
- 9 a budget cut in 1979.
- 10 Q Concerning that requested budgets that
- 11 each department head suggests or would like, are
- 12 those budgets then analyzed by you prior to going
- 13 to Mr. Herbein to determine whether or not you would
- 14 accept those budgets or cut back those budgets?
- 15 A Yes. That review would be made by me and
- 16 also some budget people that I have working for me.
- I have a staff of three budgeting people
- 18 in Reading that worked for me and that kind of analysis
- 19 and evaluation of that budget would have probably
- 20 first been made by those people who worked for me
- 21 in the budgeting field, and then they would come to
- 22 me and review their findings and their results of
- 23 their analysis with me, and you know, then we would
- 24 sit together and review that budget before we took
- 25 it up to Mr. Herbein for presentation.

- So that kind of a thing happened by three
- 3 or four people, by three people who worked for me,
- 4 by myself; it was a joint effort kind of thing.
- 5 Q And this would be utilizing the guide-
- 6 lines sent down by GPU?
- 7 A Yes.
- 8 Q Do you ever discuss with the department
- 9 heads themselves, those budgets that they have sent
- 10 to you?
- 11 A I try to sit in on as many meetings where those
- 12 budgets are being developed as I can. I just came
- 13 from one of those meetings where department heads
- 14 were in presenting their 1980 budgets.
- 15 Historically I have tried to sit in on
- 16 those kind of sessions where a person is coming in
- 17 to forecast what he wants to do next year, and
- 18 consequently what it is going to cost. So many times
- 19 I was able to -- I would sit in on that kind of
- 20 session to offer some suggestions to what he was
- 21 proposing.
- 22 There is also one other aspect which
- 23 I guess we should talk about for a minute. The
- 24 expense budget depends very heavily on the personnel
- 25 budget and historically prior to the time that we

2 dev	eloped a	n expen	se budget,	we	developed	a	personnel
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- 3 budget. We forecast the staff sizes that are required
- 4 to do a job in a particular function and so the
- 5 process that I described on the expense budget, we
- 6 also do that on the personnel budget.
- 7 We get input from department heads as
- 8 to how many people they think it is going to take to
- 9 accomplish their function. It may be the existing
- 10 staff, it may be more people than they currently have,
- 11 so we go through that same kind of effort and process
- 12 to forecast the staff size requirements.
- I find in many of the review sessions
- 14 that I sit in on, the variable in whether we are
- 15 going to be able to do something versus whether we're
- 16 not going to be able to do something is the number
- 17 of people that we have on the staff, so that many times
- 18 I will sit in on expense budget discussions with
- 19 department heads just to see how they forecast their
- 20 people.
- 21 MR. YUSPEH: Do you have responsibility
- 22 for personnel budgeting?
- 23 THE WITNESS: Yes.
- 24 MR. YUSPEH: What happens if someone
- 25 makes a personnel request that you disagree with?

THE WITNESS: It happened today. There
is a budget that was submitted today which forecasts some additional people for next year
which I knew nothing about and I asked a series
of questions of, first of all, why I didn't
know those people were being forecast before
I got into today's session and, you know,
secondly I asked a number of questions to
find out why they forecast those additional
people.

I don't make a judgment that they don't need or they do need those people, I would never make that judgment at this point in time, but what I would insist on is that they come back with the proper justification that does show me that they, in fact, do need the staff that they are forecasting.

So I am responsible for the personned budget, but only insofar as I am again the person or the manager who is responsible to carry that personnel budget up to Mr. Herbein, who then, again, carries it up to Mr. Kreitz, who carries it up to GPU Service Company.

But the personnel budget is a rather,

again, a long, tedius review and approval

process that we go through and we normally will

do that prior to the time we start preparing

the expense budgets.

Our expense budget is very dependent on the number of people, because the great majority of the expenses in the O&M budget are payroll expenses.

MR. YUSPEH: And if someone, if there is an ultimate dispute between you and one of the operating people in terms of personnel, is he free to then discuss it with the vice president of Generation?

THE WITNESS: I would recommend that he do that, and we do that, make at jointly. I will advise Jack that we have a forecast of some people and I normally would not approach Mr. Herbein and say, "I disagree with that," but my approach there would be, "We need further discussion on that staff size and I suggest that you and I talk to whoever it is," and that is the way those things were generally handled.

One of the things the company has, I think, been very aware of since I started work back in

25

in writing?

- 1
- 2 A Yes, ma'am. Any increase in staff requires
- 3 written documentation to justify that increase.
- 4 There are a series of questions that must
- 5 be answered by that requestor, such as can't the job
- 6 that you are proposing that has been done be done
- 7 by somebody else, can't we share that work with
- 8 another department?
- 9 We get into a lot of discussions on
- 10 what kind of classifications of people should be
- 11 doing certain jobs.
- 12 So in answer to your question, yes,
- 13 written documentation is required for any increase
- 14 in staff size, whether it be one person or 50 people,
- 15 and rather extensive documentation.
- 16 Q There is a tendency to not want to in-
- 17 crease the staff size then?
- 18 A Yes.
- 19 O Other than --
- 20 A I didn't answer that correctly, I don't think.
- 21 Not to increase, but to have the proper staff size,
- 22 and that doesn't necessarily mean not to increase.
- 23 There are a lot of reasons we should
- 24 add people to certain functional areas, so I think
- 25 when we discover that fact and that we need people

2 to do certain things that just have to be done, we

- 3 have got to increase the staff sizes.
- I think since 1974 we have just simply
- 5 looked at that a lot closer than we had before and
- 6 we have tried to set some limits as to how fast
- we grow, as to the number of employees we put on
- 8 the payroll, but there are many cases when staffing
- 9 increases are properly justified and we definitely
- 10 should make those. But the attitude has been, "Let's
- 11 control, let's just exercise control, let's not set
- 12 zero growth limit, but let's just exercise control
- 13 in that area.
- 14 Q You picked the year 1974. Is that a
- 15 year --

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- 16 A I only used it because that is when I went into
- 17 that Operations Analysis job and I believe at that
- 18 point in time the rest of the company finally realized
- 19 that what the consultant was saying in his study,
- 20 which was conducted actually since 1971, that company
- 21 people finally realized that we were serious about
- 22 properly justifying the needs for people and that they
- 23 were responsible, "they" meaning the supervisory
- 24 staff of the company, was responsible to properly
- 25 determine their staffing requirements.

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1	Christman 40
2	There just wasn't enough emphasis placed
3	on it prior to 1974, and I think there was awareness
4	at that point in time that, yes, we were going to do
5	this and we were serious about it.
6	Q From 1971 to 1974 Met Ed hired a consultant
7	specifically on this issue?
8	A Actually the consultant was hired by GPU.
9	The consultant signed the contract with the service
10	company to study staffing requirements across the
11	entire GPU system and to design some productivity
12	measurement systems, again, for the entire GPU system.
13	So it wasn't strictly a Met Ed study, it was a GPU
14	study.
15	Q Who did this study, what was the consultant?
16	A United Research Company.
17	Q And as a result of this analysis, you
18	and other management level people became aware of the
19	concern to not
20	A To not inadvertently increase staff
21	size that wasn't justified.
22	Q Were there any other things that came
23	out of that consultant?
24	A We had developed, or they had developed certain

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25 productivity measurement systems for various functions

- 2 in that area.
- 3 We, for example, had a system where we
- 4 were measuring the productivity of our Line Department
- 5 personnel. We set some time standard to perform
- 6 certain evolutions, and we had the field people
- 7 report back to us how long it actually took them
- 8 to do those things. Then we made some comparisons
- 9 of how long it took versus how long we expected it
- 10 to take.
- 11 So in a sense we developed some indicators
- 12 which indicated that we were doing things pretty much
- 13 in accordance with the way we expected them to be done,
- 14 and in some cases, we were doing things not in accordance
- 15 with the way we expected them to be done.
- 16 There were certain systems developed by
- 17 United Research Company over that period of 1971 to
- 18 1974 which I really inherited as director of Operations
- 19 Analysis, which we couldn't then use after I took over
- 20 that job. Some of those systems were good and some
- 21 of those systems were very, very bad. It depended
- 22 pretty much on how w 1 time standards were developed,
- 23 and this is a very controversial to begin with.
- 24 Certain parts of our work force are always
- 25 much easier to study in regard to how productive they

- 2 are than are others. What we have found by that work
- 3 is that there are certain kinds of workers that you
- 4 can study and probably put on some reasonably good
- 5 productivity measurement system, but there are other
- 6 employees, depending on the nature of their work, that
- 7 it is very, very difficult to do that with, and I would
- 8 guess that there are an awful lot of our employees
- 9 that fall into the second category, that have jobs of
- 10 the nature that simply don't lend themselves to measur-
- ll ing their productivity.
- 12 If we did continue those systems, and I
- 13 suspect that even today some of the systems developed
- 14 by United Research are being used -- I frankly don't
- 15 know that because I have really gotten away from that
- 16 work completely in regard to generation -- the United
- 17 Research Company's work, as I recall, was limited to
- 18 maintenance planning and scheduling and outage planning
- 19 and scheduling. It was just two projects that United
- 20 Research did, so it did not do a Productivity Measure-
- 21 ment System in relation to the Generation System, but
- 22 they did some study on planning and scheduling
- 23 capabilities.
- 24 Q Your resume indicates that one of your
- 25 responsibilities is generation safety. What does

2 that encompass?

- 3 A When I took over the job in April 1978, I had
- 4 a supervisor of Generation Safety that reported to
- 5 me, and his responsibilities were to go to the plants
- 6 and conduct Safety Meetings, to hold Safety Programs
- 7 with Generation employees, to investigate accidents,
- 8 to generally work in the Industrial Safety field.
- 9 Soon after I took over the job, that
- 10 employee was transferred to the Corporate Safety
- Il Function within Met Ed and I no longer then had the
- 12 safety person directly reporting to me, and in fact,
- 13 I do not today.
- 14 We do have people, though, at the plant
- 15 who are responsible for industrial safety at the plant,
- 16 and my responsibility right now is simply to basically
- 17 stay in touch with those people to make sure that
- 18 Safety Meetings are being conducted, that a Safety
- 19 Program is in existence at the plants and that they
- 20 are generally servicing the plant from a safety
- 21 standpoint.
- 22 I do not have anybody directly reporting
- 23 to me at the moment in safety.
- 24 Q That would be personnel safety?
- 25 A Yes.

- 2 One of your other responsibilities is
- 3 Generation stores.
- 4 A Again, when I took over the job, I had a person,
- 5 a supervisor of stores, located in Reading, who
- 6 was responsible to go out to the plants and help
- 7 develop their stores system and generally cversee
- 8 their warehouse operations.
- 9 In January of this year, of 1979, the
- 10 Material Management Department, which is a corporate
- 11 Met Ed department, has taken over all the stores people,
- 12 including the Generation stores people.
- 13 I, today, have no direct line responsibi-
- 14 lities to stores functions, but I still have a person
- 15 on my staff who generally interfaces with purchas and
- 16 contracts and stores function, but primarily on u..
- 17 administrative basis, to process purchase requisitions,
- 18 process purchase orders, process invoices. So my
- 19 stores responsibility today is primarily an administra-
- 20 tive responsibility to make sure that the paperwork
- 21 associated with procurement of material or services
- 22 is properly handled within Generation.
- 23 O Your resume also indicates that other
- 24 responsibilities are document control and record
- 25 retention. What does that entail?

- 2 A In Corporate Headquarters we have a Document
- 3 Control Center where every piece of incoming cor-
- 4 respondence and outgoing correspondence is filed
- 5 by a file number, and my responsibility in that area
- 6 is primarily to maintain records, retrieve records,
- 7 make sure records are retained for the appropriate
- 8 time for which they have to be retained.
- I had a series of people, again, still
- 10 do, working is Reading on that particular function.
- 11 We attempted and really are still attempting to
- 12 install or institute a standard filing system
- 13 throughout the entire Generation Division, and that
- simply means that documents which are being received
- or sent from any of the Generation locations will be
- 16 filed in a current filing system so that we can refer
- 17 back and forth from plant to plant or from plant to
- 18 corporate office with the same reference system.
- 19 We have some dedicated Document Control
- 20 people here at TMI and I became quite involved with
- 21 their record retention problems and their document
- 22 control problems.
- We are highly regulated as to what we
- 24 must keep, how we must store them, et cetera, and I
- 25 became pretty much involved in working with the

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3 requirements insofar as document control and record

4 retention was concerned.

5 Again, it was from a telephone communica-

6 tions standpiont, but I did visit the plant on numerous

7 occasions to look at the records problem out here.

8 Q What kind of documents are you required

9 to retain?

10 A Our records here at TMI are primarily categorized

Il into QC kind of records and non-QC kind of records.

12 The Quality Control kinds of records are

13 drawings, operating charts, operating records which

14 have certain retention requirements on them -- I am

15 not sure if it is six or seven years or lifetime

16 of the plant; we certainly have some lifetime

17 requirements on some of our records, but again,

18 our records are primarily QC and non-QC categorized.

19 The QC records are those which have re-

20 tention requirements. The non-QC is our normal

21 correspondence back and forth to operate the business

22 on a daily basis.

23 So I get involved from both sides to set

24 up a system whereby we are going to be able to com-

25 municate and find things on the non-QC side and on

- 2 the QC side. Our problems are primarily in properly
- 3 storing, being able to retrieve and meeting the
- 4 record retention requirements that are set by regula-
- 5 tory agencies.

- 6 We tend to categorize our records one other
- 7 way and those are active and non-active, and again,
- 8 we can cross non-active QC and active QC, et cetera,
- 9 so we tried to separate and categorize records into
- 10 active and non-active simply to be able to handle
- Il them, if you will, a little different because of the
- 12 access requirements to those records, and in fact,
- 13 in the staff itself we divide responsibility; certain
- 14 people have responsibility, if you will, for active
- 15 records, and other people have responsibility for
- 16 non-active records.
- 17 Q Both within your department?
- 18 A When I mentioned that, I was talking about the
- 19 TMI staff, and those people don't directly report to
- 20 me. I would have indirect responsibility for those
- 21 TMI staff people who were working in this Records Field,
- 22 not direct responsibility.
- 23 Q You were not here on the morning of March
- 24 28, were you?
- 25 A No, ma'am, I wasn't.

- 2 Were you called that day?
- 3 A No, I was not called by anyone that day. I
- 4 became aware of the accident when I got to the office
- 5 that morning. But I wasn't directly called by any-
- 6 body. I didn't know about he accident until I came
- 7 to the office.
- 8 Q Which would have been your office in
- 9 Reading?
- 10 A That's right.
- 11 Q And were you asked to come down here at
- 12 any point?
- 13 A I was asked on April 1st. The evening of April 1st
- 14 Mr. Herbein called me and asked me to come out the
- 15 next day.
- 16 Q Was he at the Island then?
- 17 A He was over at the Observation Center when he
- 18 called, yes.
- 2 Did he indicate to you why he wanted you
- 20 to come here?
- 21 A He asked me to come out and primarily help him
- 22 in his responsibilities over at the Observation
- 23 Center at that point in time. He needed somebody
- 24 to work with him on organizing staff to interface
- 25 with some of the other Administrative people who were

2 providing services to the on-site and off-site people,

- 3 and he just asked me to come out and work directly
- 4 for him in those kinds of response areas. So I
- 5 came out on the morning of April 2nd, five days after
- 6 the accident.
- Q When you got here, what responsibilities
- 8 were you given?
- 9 A Initially I started working on organization
- 10 charts. At that point in time we were operating from
- ll the Observation Center and trailers that were located
- 12 over there, and Jack asked me to deal with, talk to
- 13 and communicate with a number of people that were
- 14 working from that side and try to put down on paper
- 15 how all those people really fit together organizationally.
- 16 He asked me immediately to work on
- 17 organization structure, who was doing what, who was
- 18 reporting to whom. He asked me to help him organize
- 19 the operations watch which he had established over
- 20 in the Observation Building to make sure that that
- 21 was properly staffed with certain kinds of people.
- 22 My responsibilities there were simply
- 23 to really secure people to stand that watch. I
- 24 got a little bit into some of their operations watch
- responsibilities in order to select the kind of people

- 1
- 2 that I thought should stand the watch.
- 3 In addition to that, the first couple
- 4 of days I dealt with other company people who had
- 5 come in to provide the administrative kind of services,
- 6 clerical, food, janitorial, all the things that really
- 7 had to be done to sustain us over there in Trailer
- 8 City and I continued to do so for quite some time.
- 9 Q Until what point in time were those
- 10 your responsibilities?
- Il A well, until we moved over here to the Island.
- 12 I moved over with Jack when he came over to the Island
- 13 and occupied a trailer on the east side of the Island.
- 14 At that point in time I was screening all
- 15 his mail. Mail started to come in soon after that.
- 16 There was an accumulation of mail that was there
- 17 when I got there that I went through, and each day
- 18 I spent a limited amount of time with him just
- 19 screening and going over his mail with him, calling
- 20 to his attention those things which I thought he had
- 21 to see and eliminating some of the things that he
- 22 didn't have to see.
- 23 Coming back to the question, we moved to
- 24 the Island, I suspect, two weeks or so after we got
- 25 here. We were probably over there for two weeks before

- 2 we moved over here, and I moved with him into the
- 3 trailer and continued really to support him from
- 4 the staff assistant standpoint and from an adminis-
- 5 trative standpoint.
- 6 I still continued to do some of the things
- 7 I did in my manager of Generation Administration
- g responsible areas, and I continued to screen mail,
- 9 to schedule people for interviews, to answer questions
- 10 that have arisen as a result of interviews, and
- Il inquiries, and generally provide in-staff assistance
- 12 on a day-to-day basis right now.
- 13 Q And Mr. Herbein and you are both located
- 14 on the Island full time now?
- 15 A Yes, we are.
- 16 Q The Operations watch that you were in-
- 17 itially involved in setting up, was that for duty in
- 18 the control room?
- 19 A No, it was to provide Mr. Herbein with certain
- 20 information that he wanted to have on a continuous
- 21 basis over in the Observation Building in order for
- 22 him to provide direction to the people who were in
- 23 the control room.
- 24 Again, this is early the first couple of
- 25 weeks after the accident, but we charted some of

- 2 the plant parameters continuously over there in the
- 3 Observation building. We kept track of radiation
- 4 exposure data that was being reported by both on-site
- 5 and off-site teams.
- 6 The Operations watch was really formed
- 7 before I got there, and all I simply did was help staff
- 8 it, but to continue to keep making sure that they
- 9 were collecting information which was required for
- 10 Mr. Herbein to make some of the decisions that he had
- 11 to make.
- 12 Q And the people that were on this Operations
- 13 watch would gather specific information that Mr. Herbein
- 14 wanted and keep him up-to-date as to that information?
- 15 A That is correct.
- 16 Q Who was head of that group, was there a
- 17 head of it?
- 18 A Well, on each shift it was a 24-hour-a-day
- 19 watch, and we were running initially, I guess, 12-hour
- 20 shifts with only two sections which, after a couple
- 21 of days we changed to a three-section 8-hour day watch
- 22 schedule.
- 23 But on each of the shifts there was one
- 24 person on the watch who was responsible for the
- 25 watch. Initially those were plant people, people that

- 2 were assigned here at TMI, and as we could release
- 3 those plant people to come back and work over here on
- 4 the Island, then we brougt in some of the technical
- 5 support people from Reading to man that watch, but we
- 6 normally had a senior engineer in charge of each
- 7 watch section who was basically in charge of the
- 8 entire watch.
- 9 Q Were you involved with organizing schedules
- 10 for the recovery effort?
- 11 A Not directly. I am not exactly sure what you
- 12 mean by "organizating schedules for the recorvery."
- 13 I guess I don't quite understand your question.
- 14 I have been involved --
- MR. YUSPEH: She will restate the ques-
- ló tion.
- 17 Go ahead.
- 18 O You indicated off the record that there
- 19 is a standing watch while Mr. Herbein is not here
- 20 that other management level people are here so that
- 21 they can contact him if heed be.
- 22 Are you involved with any of that schedul-
- 23 ing?
- 24 A No. Sammy Lawyer who is one of the duty
- 25 managers that stands the night watch, has the responsi-

- 2 bility to schedule that watch. So Sammy Lawyer
- 3 is scheduling that duty manager watch at night as
- 4 well as standing the watch.
- 5 Q Concerning the Operations watch that
- 6 you indicated was established prior to you even
- 7 arriving at the Island, did you become involved with
- 8 the people that were selected to be on that Operations
- 9 watch?
- 10 A I dealt with them on a daily basis. I still do.
- ll We have that watch still established on a a 24-hour
- 12 a day basis, and it now works out of a trailer and
- 13 it is a continuation of the watch that really was
- 14 established over at the Observation Center, I think
- 15 the first day of the accident.
- 16 To my knowledge, Mr. Herbein established
- 17 that watch on March 28.
- 18 Now, it took a day or two before it
- 19 became functional, but he immediately, upon arrival
- 20 here, as I have been told, established that watch.
- 21 That watch is still in existence today.
- 22 Q And today it is not made up of plant
- 23 people but people from Reading?
- 24 A That is correct.
- 25 Q Are those engineers from Reading?

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2 A Yes, ma'am. We have drawn upon our Generation

- 3 Technical Support staff for the lead person on that
- 4 watch. There are only two people in each watch section
- 5 right now. The second person in the watch section is
- 6 not necessarily a Generation Department employee.
- 7 We have drawn upon other resources in the company to
- 8 provide that second person on that watch, so we have
- 9 people out of other functional areas who are now
- 10 standing that watch, but the lead person in that watch
- 11 is still a Generation engineer, but he is out of the
- 12 Reading staff.

- 13 Q When you were organizing the schedule,
- 14 when you first got here, concerning that Operations
- 15 watch, did you have any involvement with the people
- 16 who were involved in that watch, choosing the particular
- 17 people?
- 18 A Yes, to the extent that I was called back to
- 19 Reading, for example, to Dick Klingaman, manager of
- 20 Generation and Engineering, and I would ask Dick
- 21 or request from Dick people who we thought should
- 22 stand the watch and then he and I jointly would go
- 23 through a list of people who we felt were qualified
- 24 to stand that watch and selected those people that
- 25 we would want to come out here.

- My involvement was with Dick.
- 3 Q Initially this Operations watch was made
- 4 up of people from the plant, correct?
- 5 A Yes.
- 6 Q Did Mr. Herbein choose those people
- 7 initially?
- 8 A I am not really sure. I don't know. I suspect
- 9 what he did was to ask somebody from the plant
- 10 staff to organize that watch for him, and as a result
- 11 of that request, somebody assigned the plant people to
- 12 that watch.
- 13 Q You did not rearrange the assignment of
- 14 the people to that watch from the plant initially;
- 15 you just were involved with who would be assigned
- 16 to relieve those plant people once people from
- 17 Reading were brought in?
- 18 A Yes. I had relief people who would come
- 19 back to the Island to start their normal kinds of
- 20 activities as they were allowed back, and my involve-
- 21 ment was simply to replace people that were, you
- 22 know, freed up by bringing them back to the Island
- 23 with people out of Reading.
- 24 So people would come to me and ask me
- 25 to get them a replacement and then my involvement

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phone

2 Q How many people initially? You said there

3 were two 12-hour shifts. How many people initially

4 would be on each shift?

5 A As I recall, initially we had four people in

6 each watch section. I am pretty sure that is right.

7 Q Once it was changed to three shifts, was

8 it still four people on each shift?

9 A For a period of time, yes. We actually changed

10 it to two people when we came over here to the Island

Il because at that point we could communicate to a much

12 larger degree with the Island, being here on the

13 Island, than we could when we were over at the Obser-

14 vation Center.

I guess what I am saying is the need for a four-

16 person section over there was primarily caused by some

17 of our communications problems. When we finally came

18 over here and located the watch on the Island itself,

19 we found it much easier to communicate with these

20 people that we had to communicate with. We had access

21 to the control room. We could send the people directly

22 to the control room to get the data.

23 So our communications problems became much

24 less than they had been when we were over in the

25 Observation Center. We therefore cut down the number

```
1
                          Christman
2 per watch in each watch section.
              Now there are two people in each watch
   section?
5
        That is right.
              Since March 28th, have you made any state-
7 ments concerning the accident on March 28th, and by
8 this I mean other than today, have you been interviewed
   or deposed or made a formal statement to anybody?
10 A
        No, ma'am.
11
         Q Have you been notified of any intent of
12
   being deposed or interviewed by anybody?
13 A No.
14
               MS. GOLDFRANK: At this time, we will
15
         recess this deposition. I have no further
16
         questions, but there is a possibility that we
17
         would ask you to come back for further
18
         questioning.
19
               The deposition concluded at 5:05 p.m.)
20
21
                              Paul G. Christman
   Subscribed and sworn to
   before me this ___ day
   of -----1979
23
24
   Notary Public
25
                            000
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1	
2	STATE OF NEW YORK)
3	COUNTY OF NEW YORK)
	or Man Tork)
4	We, STEPHEN McCRYSTAL, Notary Public, and
5	STANLEY RUDBARG, Certified Shorthand Reporter and
6	Notary Public of the State of New York, do hereby
7	certify that the foregoing deposition of
8	METROPOLITAN EDISON COMPANY by PAUL G. CHRISTMAN
9	was taken before us on the 2nd day of August 1979.
10	The said witness was duly sworn before the
11	commencement of his testimony. The said testi-
12	mony was taken stenographically by ourselves and
13	then transcribed.
14	The within account of
15	The within transcript is a true record of
	the said deposition.
16	We are not related by blood or marriage to
17	any of the said parties nor interested directly
18	or indirectly in the matter in controversy; nor
19	are we in the employ of any of the counsel.
20	IN WITNESS WHEREOF, we have hereunto set
21	our hands this E day of August 1979.
22	80.11 h (dal
23	STEPHEN MECRYSTAL (6)
24	(failey Kudbacoto)
25	STANLEY RUDBARG, CSR.

PRESIDENT'S COMMISSION ON THE ACCIDENT AT THREE MILE ISLAND

Corrections to August 2, 1979, Deposition of Paul G. Christman

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To Read

Subscribed and sworn to

before me this 13 day

of auxut 1979

Notary Public

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1	Christman	58
2	per watch in each watch section.	
3	Q Now there are two people in each watch	
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19	The deposition concluded at 5:05 p.m.)	
20	(, 10/; ,	
21	Paul G. Christman	-
22	Subscribed and sworn to before me this 13 day	
23	of 2000-1979	
24	Notary Public	
25	MOTER - PUBLIC OOO HET COUNTY OF OOO MY COUNTY OF THE COUN	

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BENJAMIN REPORTING SERVICE