

NUCLEAR REGULATORY COMMISSION

ORIGINAL

In the Matter of: PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
NRC'S ENVIRONMENTAL REVIEW

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PUBLIC MEETING

DATE: August 18, 1982 PAGES: 1 - 132
AT: Pottstown, Pennsylvania

*COOL
Per H. Abelson*

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
NRC'S ENVIRONMENTAL REVIEW

PUBLIC MEETING

Nuclear Regulatory Commission
Conference Rooms A & B
Holiday Inn
King Street and Route 100
Pottstown, Pennsylvania

Wednesday, August 18, 1982

The public meeting convened, pursuant to
notice, at 8:00 p.m.

BEFORE:

- EUGENE MOODY, Moderator
- THOMAS NOVAK
- WILLIAM REGAN
- STEVE LEWIS
- HARVEY ABELSON

ALSO PRESENT:

- A. SCHWENCER
- T. MO
- T. POLICASTRO
- L. SOFFER
- S. ACHARYA
- R. WESCOTT
- E. CHAN
- E. PENTECOST
- B. RICHTER
- M. MASNIK
- J. LEHR.
- E. McCABE

* * *

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PRESENTATION OF:

Rita Banning

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Phyllis Zitzer

17

Charles Elliott

23

Tom Winterbottom

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Alan Stifelman

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Norman Aamodt

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Samuel W. Morris,
State Representative
District 155, Pennsylvania

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Marvin Lewis

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J. William Inslee

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Ann Newbold

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William M. Miller, Jr.

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John Salamone,
Mayor of Royersford

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1 the members from the Nuclear Regulatory Commission and
2 introduce to you who can provide some of the structure
3 of the purpose of the meeting and the format and I would
4 like to introduce Mr. Thomas Novak who is the Assistant
5 Director of Licensing for the Division of Licensing of
6 the Nuclear Regulatory Commission.

7 Dr. Novak.

8 MR. NOVAK: Thank you, Mr. Moody.

9 Good evening, ladies and gentlemen.

10 My name is Tom Novak. I am with the staff of
11 the Nuclear Regulatory Commission. We don't match you
12 one for one, but I would say this is probably the
13 largest contingent of staff people that I have seen at a
14 meeting such as this. I personally would think that it
15 suggests that we take these meetings very seriously.

16 As we go through this meeting you will get an
17 opportunity to understand the kinds of things that go
18 into our reviews, the timing and the purpose of this
19 meeting.

20 I am not going to spend more time than to just
21 introduce the people at this table who are, starting
22 from the left there is Bill Regan. He is the Chief of
23 the Siting Analysis Branch of the staff. To his right
24 is Steve Lewis. He is our lead counsel for the Limerick
25 hearing process. To my right is Harvey Abelson, who is

1 the Project Manager for the Limeric Station.

2 I would like now to turn the meeting over to
3 Harvey. He is going to go through very briefly what is
4 contained in the review process and he is going to
5 introduce members of the staff and we are going to try
6 to turn this meeting over as quickly as we can to you so
7 that we can begin to get your comments.

8 Mr. Moody is going to figure out how many
9 minutes each of you are entitled to. I think there are
10 around 25 people. The staff certainly plans on being
11 here until we have heard everyone and they have what
12 they want to say put on the record.

13 This meeting is being transcribed. It will go
14 back and, as I understand it, it does become part of the
15 public docket. It isn't testimony, but it is
16 information we will go back and review to understand
17 fully your comments and concerns.

18 Thank you very much.

19 Harvey.

20 MR. ABELSON: Thank you, Tom.

21 (Slide presentation.)

22 MR. ABELSON: Can everybody see the slide in
23 the back?

24 (Members of the audience nod affirmatively.)

25 MR. ABELSON: What I would like to do is

1 familiarize you with the NRC environmental review
2 process through taking you through the schedule for the
3 environmental review and discussing each of the major
4 milestones occurring during that review.

5 To put this into perspective, a construction
6 permit was issued for the Limerick Generating Station,
7 Units 1 and 2 back in 1974. We are now at the operating
8 license stage. Philadelphia Electric Company applied
9 for an operating license back in March of '81.

10 Now included in this application was a set of
11 documents, four volumes, called the EROL, the
12 Environmental Report Operating License stage. The EROL,
13 as well as other documents associated with the
14 application, have been placed in the local Public
15 Document Room, which for this plant is located right
16 here in Pottstown at the Public Library.

17 In addition, all correspondence between the
18 NRC staff and the applicant, Philadelphia Electric
19 Company, as well as other related documentation to the
20 application, is also filed in the local Public Document
21 Room for your reference.

22 What happened after we received this
23 application was the staff performed a preliminary
24 review, which we call an acceptance review, to make
25 certain that the information contained in the EROL was

1 acceptable so that we would be in a position to do a
2 further detailed review.

3 We found the application did meet the
4 requirements of the Commission. In areas where
5 information was deficient, we sent out requests for
6 additional information via questions, acceptance review
7 questions. The application therefore was accepted and
8 what we call docketed in July of '81.

9 That brings us to this week, the environmental
10 site visit. This is an information gathering function
11 and it includes several important activities which take
12 place over a week's period. We started out on Tuesday.
13 The staff toured the site and surrounding areas focusing
14 in on environmental interfaces.

15 This morning the staff met with the
16 Philadelphia Electric Company to discuss draft questions
17 based on our review of the environmental report to
18 date. This meeting was open to the public, as are all
19 our technical meetings. We had some members of the
20 public attend today.

21 Also happening this week, the staff plans to
22 meet with several federal agencies and state agencies to
23 get their inputs. Now these agencies would be ones that
24 have jurisdiction over certain environmental impacts
25 associated with the Limerick case or agencies that have

1 a special expertise in some of the environmental areas
2 of concern here.

3 Basically, as I said, it is an information
4 gathering session. We are looking for inputs and, of
5 course, this is why we are here tonight. We are looking
6 to receive your comments, your concerns on the
7 environmental impacts of the Limerick Generating
8 Station. We want to take all this information that we
9 gather during this week and factor it into our review.
10 We are in the early stages of the review and in effect
11 the environmental site visit kicks off the detailed
12 review for Limerick.

13 The next step in the process, as indicated by
14 the fourth milestone, the November 5th milestone, is
15 that we send out a request for additional information to
16 the applicant, Philadelphia Electric, based on
17 information we gather here this week. Philadelphia
18 Electric in turn must respond to our request by
19 mid-December of this year.

20 Let me say a word on the scope of the
21 environmental review. We are at the operating license
22 stage now and the NRC environmental review is limited to
23 considering only information that is new or changes that
24 have occurred since the construction permit stage. The
25 reason for this is that we don't want to reinvent the

1 wheel.

2 There was a review, an environmental review
3 associated with the CP or construction permit stage
4 before construction permits were issued. What we are
5 looking for is changes, new information and new
6 developments since then.

7 Another point, in our view we make use
8 wherever possible of data obtained previously from other
9 federal, state and local agencies that were involved in
10 the construction permit review. However, we do make an
11 independent analysis of this data.

12 That brings us down to the next major
13 milestone which is the issuance of the draft
14 environmental impact statement due out early May of
15 '83. This document reflects the environmental impacts
16 associated with the Limerick Generating Station that are
17 different from the ones that were already evaluated at
18 the construction permit stage and which we documented in
19 our final environmental impact statement of 1973. This
20 represents all the information to date of new
21 developments, changes in plant design and what-have-you.

22 Copies of the draft environmental statement,
23 what we call the DES, are circulated or sent to federal,
24 state and local agencies that again have special
25 expertise in the case or have jurisdiction by law or

1 have enforcement authority over environmental
2 standards. In addition, copies are sent to all the
3 parties to the Limerick OL, operating license
4 proceeding.

5 The availability of the draft environmental
6 statement is made known by a notice in the Federal
7 Register as soon as it comes out, and that notice
8 solicits comments from all interested parties. We
9 request that comments be received within 45 days after
10 the Federal Register notice appears.

11 Getting down to the next major milestone, this
12 is the issuance of the FES, the final environmental
13 statement. Now how does this differ from the draft
14 environmental statement? Well, it factors in the
15 comments received from interested agencies and parties
16 as a result of our solicitation for comments.

17 The issues associated with all substantive
18 comments are addressed within the final environmental
19 impact statement. In addition, all comments received
20 within that 45-day period are attached to the final
21 environmental statement as appendices.

22 To take you further down in the review
23 process, we have the ASLB hearing commencing, well, the
24 target date is April '84. ASLB is the Atomic Safety
25 Licensing Board. Now here again let me distinguish

1 between what we are doing tonight and what that hearing
2 is. This is a public meeting. This is an information
3 gathering session where we are looking for your inputs
4 so that we can factor them into the environmental review
5 process.

6 You may get the impression that this is a
7 hearing because you see the court reporter up here and
8 this will all be transcribed, but the actual hearings
9 and the proceeding are scheduled to start in April of
10 '84.

11 Our entire review schedule is geared so that
12 the final milestone in that review, the Commission
13 decision on the issuance of a license, coincides with
14 the applicant's estimate for completion of construction
15 of Unit 1. So we are talking about October '84. All
16 these dates and milestones you see here were developed
17 so that we end up at that point in October '84.

18 That about describes in general terms the
19 environmental review process.

20 What I would like to do now is introduce the
21 NRC staff that are here. We have people of various
22 disciplines here.

23 Let me introduce the first row first, starting
24 from your left.

25 Al Schwencer, who is the Branch Chief for

1 Licensing in the Division of Licensing.

2 Len Soffer, Section Leader in the Siting
3 Analysis Branch.

4 Brian Richter next. He is an economist
5 looking at socioeconomic impacts. He is attached to the
6 Siting Analysis Branch as well.

7 Next to Brian is Mike Masnik. He is a senior
8 fishery biologist in Aquatic Resources Section of the
9 Environmental Engineering Branch.

10 Next to Mike is John Lehr, senior
11 environmental engineer whose area is water quality and
12 also attached to the Aquatic Resources Section of the
13 Environmental Engineering Branch.

14 Going into the second row we have Tin Mo who
15 is a health physicist. He is attached to the
16 Radiological Assessment Branch.

17 Next to Tin is Sarbes Acharya who is a
18 radiological analyst with the Accident Evaluation Branch.

19 Next to Sarbes is Tony Policastro. He is
20 Argon National Laboratory, a consultant on noise.

21 Next to Tony is Ebe McCabe. He is a Section
22 Leader in the Projects Branch of Region 1 out here in
23 King of Prussia responsible for the Limerick Station.

24 In the back row we have Elaine Chan, staff
25 counsel for the NRC.

1 Next to Elain, Rex Westcott a hydrologist
2 attached to the Hydrologic and Geotechnical Engineering
3 Branch.

4 Next to Rex, El Pentecost, who is a land use
5 analyst in the Terrestrial Section of the Environmental
6 Engineering Branch.

7 Last, but not least, Charlie Ferrell who is a
8 siting analyst in the Siting Analysis Branch.

9 I think everybody over here has been
10 introduced. So me turn the meeting back to Mr. Moody.

11 Thank you.

12 MR. MOODY: Thank you, Harvey.

13 May I suggest for those who came in a little
14 bit late, we do have a sign-up sheet here, and while the
15 first few speakers are speaking if you would care to add
16 your names to the list, why don't end-run around to the
17 right and come up and sign the sheet.

18 We have 24 people on the sheet as of this
19 minute and working the problem backwards if everybody
20 takes five minutes we will be here for about two hours.
21 So may I suggest that you limit your remarks to about
22 that much time, if you can.

23 (Audience participants come forward to add
24 their names to the sheet for presentations.)

25 MR. MOODY: I would like to now call on the

1 first person on the list, Rita Banning.

2 Rita is a Commissioner of Montgomery County, a
3 good friend of Pottstown and was the first one signed on
4 the list.

5 Why don't you give your name and address for
6 the court reporter.

7 PRESENTATION OF RITA BANNING

8 MS. BANNING: Rita Banning, 967 Warren Street,
9 Pottstown.

10 I am a minority Commissioner in Montgomery
11 County. Parenthetically just for your information,
12 maybe you people are all so scientific that you are not
13 interested in the political realities, but I was elected
14 three or four years ago in a very hot race where the
15 question of the water supply for Limerick, Limerick
16 itself and Point Pleasant diversion were very much in
17 issue.

18 I differed from the other three and I was
19 elected over much opposition, I might say.

20 (Applause.)

21 MS. BANNING: So I think the facts do speak
22 for the feeling of a great number of people in Montgomery
23 County. I am speaking here today because I am concerned
24 that the Philadelphia Electric Company's nuclear
25 facilities at Limerick will damage Montgomery County and

1 the region environmentally and ruin it economically.

2 The environmental damage I will speak about is
3 the water supply at the region involving the Point
4 Pleasant pumping station. That project is on shaky
5 financial ground now. I have no doubt that without PE's
6 involvement the water authorities of both counties would
7 meet the needs of the people with a far less grandiose
8 and more economical means of supplying water.

9 The pumping station, in my opinion, really is
10 PE's project. There has been no environmental impact
11 study yet which addressed the question of how much water
12 will be available to the homes and businesses and
13 industries of central and western portions of this
14 county after years of development dependent on the
15 Delaware River water, that is, development that would be
16 encouraged by this enormous amount to be pumped over
17 from the river when we have gone years with little or no
18 water available.

19 I would like to say on this subject of the
20 water that I am 53 years old and I have lived in
21 Montgomery County all my life and I have never known a
22 period of 10 or 15 years to go by when we did not have a
23 drought period of two, three years or so routinely come
24 along.

25 Now before we had quite so many people, quite

1 so much development, well, it was tough for the farmers,
2 but that was about it. But if we have this great amount
3 of water come in encouraging development beyond what the
4 land can really sustain, what do we do then if there is
5 not sufficient water and you have had this building.

6 The Point Pleasant pumping station docket with
7 the DRBC shows that the water supply for Central
8 Montgomery County would more than double in normal and
9 wet years, that is, with the use of Delaware River water.

10 We must know now what backup supply there will
11 be or could be before this enormous expansion and this
12 induced development has occurred. The use of the
13 Delaware River water by Philadelphia Electric will be
14 largely consumptive.

15 Thirty-five million gallons a day was the
16 estimate for two nuclear plants. No environmental
17 impact study that I know of, and I don't know what has
18 come in in the last week or so here, but none has
19 measured this consumption against the projected water
20 needs of Montgomery County residents, business and
21 industry.

22 To put the figure of 35 mgd in perspective,
23 the 1977 Betz Study showed that existing dependable
24 water supply for the country totalled about 175 mgd.
25 How can the NRC permit the Limerick plant and the

1 pumping station to be built without a study which shows
2 the impact of such enormous consumption, especially in
3 dry years?

4 If the answer is to say the plant will shut
5 down, that merely leads to my second concern. What will
6 the impact of water shortage be on the cost of running
7 the Limerick plant? PE already has the highest rate in
8 Pennsylvania. Our local industries are already
9 adversely affected by the high cost of electricity. How
10 can we attract new industry with the rates going even
11 higher?

12 There are other concerns which I won't go
13 into, but which are very real and which I hope you will
14 address, the problem of the storage of nuclear waste,
15 the feasibility of evacuation in such a heavily
16 populated area.

17 All over the country the cost of nuclear
18 plants has hurt utility companies as well as consumers.
19 Unfortunately, corporate pride seems to be getting in
20 the way of a rational decision about the Limerick plant
21 by PE. Some governmental agencies must balance the
22 environmental and economic costs and make the decision
23 which is the best for the people.

24 I hope that the NRC will take a broad view and
25 see all the problems this plant is creating. No other

1 agency has been willing to look at the whole picture. I
2 beg you to do so.

3 (Applause.)

4 MR. MOODY: Thank you, Rita.

5 The second speaker will be Phyllis Zitzer.
6 Again, if you will come forward and give us your name
7 and address for the reporter.

8 PRESENTATION OF PHYLLIS ZITZER

9 MS. ZITZER: My name is Phyllis Zitzer. I
10 presently reside at 762 Queen Street in Pottstown. I am
11 President of Limerick Ecology Action.

12 I want to thank you all for being here today
13 and giving us all an opportunity to give you our
14 concerns before you conduct your environmental reviews
15 of the Limerick plant. However, I really wish that
16 there had been more sufficient notice so that those of
17 us who do take this matter very seriously would have had
18 the time to go to the Pottstown Library to review the
19 environmental report to try to be able to be here, more
20 of us, during the day to listen to some very good
21 questions that were asked today so that we could really
22 participate I think in a much more meaningful fashion.

23 We really do take this very seriously and
24 again appreciate the opportunity to voice our concerns
25 this evening. However, I know of a lot of people,

1 because they simply had something like two or three
2 days' notice of this meeting, simply were not able to be
3 here.

4 Again, I appreciate all of you, and the staff
5 in particular, for taking the time to be here. I just
6 want you to know there are a lot more people that have a
7 lot of things to say that I am sure will get a chance to
8 this evening.

9 I would like to know if written comments for
10 those people who are not able to be here this evening
11 would be appropriate, and maybe you could suggest at
12 some point this evening some guidance as to who those
13 should be directed to in the time line that those would
14 be appropriate to send in.

15 We ran an ad in the paper to let people know
16 about this meeting because we were concerned that if you
17 all were taking your time to be here that those people
18 that were concerned about Limerick should certainly make
19 the same efforts to be here to voice their concern. I
20 did receive a number of calls, some of them which I am
21 going to talk about, from people who certainly are
22 concerned and I think would appreciate the opportunity
23 to do that.

24 LEA is an organization of about 500 people
25 here within the vicinity of the plant that have been

1 long opposed to Limerick since it was first planned and
2 our primary concern has been the still unresolved water
3 supply issue.

4 We are very hopeful that this time the NRC
5 will look at the whole water supply system as it is
6 presently being planned for the Limerick facility by the
7 Philadelphia Electric Company and other agencies, and we
8 are hopeful that this review will finally for the first
9 time consider the sources of all the water that would be
10 utilized for Limerick, the upstream storage necessary,
11 if this system is approved, and the impacts that that
12 will have on the entire Delaware River Basin.

13 From the initial decision to build the plant,
14 this has been something that we have been concerned
15 about and still don't feel as yet that any one agency
16 has considered the whole system and the whole project.
17 Specifically I am referring to the Point Pleasant
18 diversion plan as it has been designed and planned to
19 provide water for the Limerick facility.

20 I would like to point out to your attention
21 that recently under depositions taken by a party to the
22 formal proceedings in this case, Mr. Vince Borg of the
23 Philadelphia Electric Company did admit that fuel at the
24 Limerick plant could not be loaded without the
25 availability of supplemental cooling water sources for

1 Limerick, much less the plant be operated commercially.

2 This is the very issue that we have been
3 raising all along, only to be told that it simply wasn't
4 the case and we are pleased that the company is finally
5 coming forth and giving accurate information, and we do
6 hope that that will be considered fairly by this
7 Commission.

8 Again, the unresolved question of whether or
9 not the Point Pleasant pumping station is going to be
10 built, whether or not those impacts could be lessened or
11 reduced if that facility were not built at all and
12 whether or not that facility is even necessary for the
13 Limerick plant is something that we want to see
14 considered in your environmental report.

15 I think we would like you to go further than
16 that and really take a more thorough look at the whole
17 question of the needs for and cost of the Limerick
18 facility.

19 The Pennsylvania Public Utility Commission
20 recently concluded a very thorough investigation into
21 the economics and need for the Limerick facility and
22 made a recommendation a few months ago that Unit 2 at
23 Limerick should either be cancelled or delayed at least
24 until after the completion of Unit 1. A final order of
25 that investigation should be out very shortly.

1 We would like you to consider the impacts of
2 whether or not one unit would be more in the public
3 interest, if any are at all, to be completed at Limerick
4 and do hope that your review will consider the
5 possibility that only one unit may be completed at the
6 plant.

7 One of the things I received a lot of calls
8 about and just want to take a minute to touch upon was
9 concerns of local wells going dry right now because of
10 possible use of well water on the site for construction
11 activities. I went through the environmental report to
12 try and ascertain whether really that is the case. I am
13 not totally sure what the company is withdrawing on
14 site, but I did receive more calls about that than
15 anything else from local residents saying their wells
16 were going dry and they heard that PE was wanting to
17 drill more wells and that sort of thing. I don't have
18 the information, but you do and/or can get that
19 information.

20 I think that people here in the vicinity of
21 the plant certainly deserve to have their drinking water
22 sources protected and guarded and certainly looked out
23 for.

24 I have reviewed the information in the
25 environmental report as to whether or not ground water

1 is being pumped presently for use on the site and it is
2 very confusing to me. In one place, in the external
3 cause section, Section 8.2.2, it I guess refers to
4 station operation and it says in fact that there will be
5 no impact on local water and sewer facilities and that
6 the domestic water supply for the station will be from
7 the river.

8 In other places, in Section 4.3.2, which is
9 the section that discusses resources committed during
10 construction and specifically water use, it does discuss
11 that initially wells have been used for construction
12 requirements and that it was limited to 100,000 gallons
13 per day averaged over a 30-year period.

14 However, that goes on and it is not clear
15 whether or not this is still in practice or not. It
16 makes an attempt to say that the water is now being
17 supplied from the river and that the wells are not being
18 used, but it is not clear whether this is present
19 practice or not and, again, it is one thing that I
20 suspect you are going to hear something about from local
21 people and I would ask you to take that into
22 consideration.

23 The only other thing particularly I think
24 critical to us as far as scope is the issue of the low
25 population zone that was considered for the Limerick

1 facility in the early days when the Limerick
2 construction permit was granted.

3 The AEC LPZ methodology that was chosen for
4 the Limerick site I think is certainly outdated at this
5 point and we feel that the 1.7 mile distance from
6 Pottstown to the Limerick facility is also something
7 that must be reconsidered. I think the AEC's criteria
8 for determining what a population center is and whether
9 or not it is appropriate to site a facility such as the
10 Limerick plant within a population center of 25,000 or
11 more, such as Pottstown, is certainly something I am
12 sure you will consider, but it is something that I think
13 goes to the whole heart of our concern about the health
14 and safety of the people here living in the Pottstown
15 area.

16 I really want to thank you for letting me have
17 a chance to speak.

18 (Applause.)

19 MR. MOODY: Thank you, Ms. Zitzer.

20 Charles Elliott is next, and would you give
21 your name and address.

22 PRESENTATION OF CHARLES ELLIOTT

23 MR. ELLIOTT: My name is Charles Elliott. I
24 am from Allentown in Pennsylvania. Along with Judy
25 Dorse of Philadelphia, I am co-counsel for LEA.

1 I would first like to thank you also for being
2 here and spending time with us and giving us this
3 opportunity to present our views.

4 I would first like to comment on the rather
5 belated notice to the public about this meeting. The
6 parties to the operating license proceeding received a
7 notice of this meeting dated August 6th and that was a
8 Friday. I didn't receive that notice until Tuesday or
9 Wednesday which was the 10th or the 11th. That gave us
10 about four or five working days to prepare for this
11 meeting.

12 Now those of us who are somewhat familiar with
13 the ER, and I would just say it is about 1,300 pages of
14 pretty technical material, had a great deal of
15 difficulty preparing what I would consider to be an
16 adequate presentation for this meeting. But our
17 difficulties don't even approach those of the general
18 public who are far less familiar with the ER, and some
19 of whom had even less notice than we did.

20 That notice I don't believe was adequate and
21 it is does not appear that it was impracticable to give
22 more notice of it, especially in view of the fact that
23 in some cases PE has been given up to 14 days' notice of
24 a technical meeting with the staff.

25 So I would like to ask the staff to schedule

1 another meeting with sufficient notice for these people
2 to present their views, and I would consider an adequate
3 notice of perhaps two weeks.

4 My substantive comments are limited to just
5 two of the areas of the ER which we consider inadequate.

6 The first area is the accident evaluation
7 section. Now a number of the concerns that we
8 originally had have already been addressed by your
9 Action Evaluation Branch representative in this
10 morning's technical meeting. I was pleased with that
11 work and I will only touch on some of those.

12 First of all, PECO's substitution of the
13 probabilistic risk assessment executive summary in place
14 of a detailed accident consequence evaluation is totally
15 inadequate. Even for what that summary covers, it is
16 totally inadequate. It is just as misleading as the
17 WASH-1400 executive summary whose use was condemned by
18 the Commission as a poor description of the contents of
19 the report.

20 Secondly, the uncritical use of the PRA/CCDF
21 graphs will not be adequate either. There will have to
22 be a generation of additional graphs to cover
23 consequence categories which have been left out of the
24 PRA, for example, genetic effects, thyroid cases and so
25 on. However, we do not believe that the additional

1 categories which are identified by the staff at this
2 morning's meeting are enough either.

3 There has been a full site specific crack
4 study and code run down for Limerick with consequence
5 outputs for other consequences than the ones that you
6 have discussed, for example, early radiation injuries,
7 leukemias, contamination of land area and
8 decontamination costs and so on. The values for all of
9 these consequence outputs were calculated as part of the
10 crack code run.

11 So I would like to specifically request that
12 CCDF's for all of the crack code outputs are generated
13 and made part of the environmental report and the
14 environmental statement. In addition, the CCDF's for
15 all the outputs should include upper or lower bounding
16 lines.

17 The crack code output contains both mean
18 values and peak values with their associated
19 probabilities. Now those graphs that should be
20 generated should also reflect the existence of both
21 those mean and peak values so that we can see the full
22 calculated extent of the risk and the uncertainties
23 associated with the calculations.

24 A fuller discussion of uncertainty will also
25 be needed. The interim policy statement for accident

1 considerations under NEPA requires a discussion of
2 health risks "in a manner that fairly reflects the
3 current state of knowledge regarding such risks."
4 PECO's environmental report has failed to even address
5 the uncertainties in the release fractions, source
6 terms, health and dose models and limitations of present
7 knowledge on these health effects.

8 The ER also totally fails to discuss
9 radiological impact on biota. It totally fails to
10 discuss the socio-economic effects associated with
11 accident emergency measures. The interim policy
12 statement requires a discussion of both of these aspects
13 and they have not been mentioned in the report and were
14 not mentioned this morning.

15 So we agree with the staff's opinion, which
16 was expressed this morning, that PECO's discussion of
17 accidents in their ER is not adequate, but we would also
18 expect that including the additional areas which I have
19 mentioned will be required by the staff.

20 A second major area of inadequacy not
21 addressed by the staff this morning is PECO's failure to
22 properly discuss uranium fuel cycle impacts. PECO's
23 environmental report only reproduced the Commission's
24 S-3 table values. As you are probably aware, the Court
25 of Appeals for the D. C. Circuit has thrown out the

1 Table S-3 Rule because they considered it invalid. But
2 even aside from that problem, the environmental report
3 makes not one mention of the health effects of the
4 uranium fuel cycle for Limerick.

5 Now there are generic values available for
6 various fuel cycle health effects and they ought to be
7 included in the environmental report so that they are
8 subject to discussion and review.

9 I would also note again in that context the
10 necessity for including both the upper bound and lower
11 bound values. The full range of values for fuel cycle
12 health impacts have not appeared in any ER that I am
13 familiar with. However, they have been discussed in
14 full in the administrative record which is already
15 before the Commission on the Ginning Haneker(?) petition
16 for the revocation of fuel cycle licenses.

17 So we would expect some discussion of full
18 range of health impacts associated with the uranium fuel
19 cycle associated the the Limerick plant.

20 I thank you again for giving me the chance to
21 speak to you and I appreciate the opportunity.

22 (Applause.)

23 MR. MOODY: Thank you, Mr. Elliott.

24 Tom Winterbottom. Give your name and address,
25 please.

1 PRESENTATION OF TOM WINTERBOTTOM

2 MR. WINTERBOTTOM: My name is Tom Winterbottom
3 and I a resident of 110 King Street. That is in the
4 Pottstown area.

5 I would just like to say that I think this is
6 an amazing thing that the NRC has set here with all
7 these gentlemen. I don't think you guys get paid enough
8 for all of this. I think it is really amazing and I
9 think you guys should earn more than \$100,000 a year
10 apiece.

11 (Laughter.)

12 That is all I want to say. I think you guys
13 are great.

14 (Applause.)

15 MR. MOODY: Alan Stifelman.

16 PRESENTATION OF ALAN STIFELMAN

17 MR. STIFELMAN: My name is Alan Stifelman. I
18 am a citizen and fisherman from Alexandria Township, New
19 Jersey. I am also Chairman of the Alexandria Township
20 Environmental Commission.

21 Tonight I am speaking on my own behalf and on
22 behalf of the Delaware River. Alexandria Township is an
23 agricultural community in Huntingdon County, New Jersey,
24 with one and a half miles of Delaware River shoreline
25 about six miles upstream from Point Pleasant.

1 We are a community of people used to living
2 with nature. The Delaware River is an important part of
3 our lives. The American shad is our official fish. We
4 believe that the Delaware River is essential to the
5 lives and livelihood of many millions of people, both
6 upstream and downstream from Alexandria.

7 It is my opinion that water pumped from the
8 Delaware River to be used for supplemental cooling water
9 at Limerick Generating Station will be detrimental to a
10 very serious degree to health of the river and to the
11 river's inhabitants both in and along the water.

12 I believe that pumping water at Point Pleasant
13 will endanger the American shad, a fish that is in the
14 process of making a come-back. The Point Pleasant
15 pumping station will probably wipe out the progress of
16 the last ten years and millions of dollars spent to
17 improve the Delaware River shad fishery.

18 I further believe that the resulting reduction
19 of flow will have severe adverse effects on the health
20 of the water in the river and estuary. This in turn
21 will reduce dissolved oxygen levels and the ability of
22 shell fish to survive in the estuary. This will also
23 result in an oxygen deficiency barrier in the estuary
24 preventing the spawning runs of anadromous fish.

25 Each time we build another impoundment to

1 divert water, even for flow augmentation, the actual
2 effect is a reduction in average annual flows. The
3 continuing allocation of water resources in amounts
4 whose cumulative quantities are not even known to the
5 Delaware River Basin Commission is a dangerous policy.
6 It is difficult to understand why such a diversion would
7 be permitted when viable alternatives exist.

8 The NRC would be acting in the public interest
9 by preventing a Rube Goldberg scheme from becoming
10 reality.

11 Thank you.

12 (Applause.)

13 MR. MOODY: Thank you, Mr. Stifelman.

14 Norman Aamodt.

15 Before you start, I got my keys.

16 (Laughter.)

17 (Applause.)

18 PRESENTATION OF NORMAN AAMODT.

19 MR. AAMODT: Let me first introduce myself. I
20 am Norman Aamodt. I am here in three capacities. I
21 recognize some of the names of some of the people who
22 are here. I am a resident of Chester County. We live
23 down near Coatesville. I am running for the State
24 Senate from the district across the river.

25 My wife and I have been intervenors in the

1 Three Mile Island restart hearing since it began, and it
2 is from that perspective that I would like to address
3 you.

4 We heard earlier that our Moderator got his
5 keys. I think what I want to talk about is the key to
6 this proceeding being useful. Earlier we heard someone
7 ask or make the statement that they hoped the NRC would
8 take a broad view.

9 The reason I came when I was asked tonight to
10 speak was because of our experience at Three Mile Island
11 at the restart hearing, because of the experience we
12 have had with regard to NRC review and because of the
13 frightening aspects of an NRC which does not represent
14 the public but is the handmaiden of the utility. We
15 feel that very keenly and let me give you just one
16 example.

17 I don't mean this is an indictment of the
18 individuals in the NRC. There are a lot of high quality
19 people in that agency just as there are in the other
20 agencies of the government. But I am taking this from
21 the perspective of Mr. Rogovin in his Rogovin Report
22 that the NRC paid for to learn what they could from the
23 accident. He made the comment that he feared that the
24 truth was not that the NRC was poorly managed, but that
25 it was not managed at all.

1 When we went through this hearing we litigated
2 one issue that was of great concern to everyone and
3 regard to this proceeding also, and that was the
4 management issue centering on training and testing of
5 operators. When the main hearing ended we presented
6 findings which were completely rejected in every point
7 by the staff, completely rejected in an echoing statement
8 by the licensee and completely rejected in the third
9 hand as a complete echo by the Board itself.

10 After the reopened hearing that resulted from
11 the cheating of the operators at Three Mile Island, the
12 Special Master who heard that proceeding found point by
13 point as we found in the proceeding earlier. The NRC
14 worked for the industry and not for the public.

15 The charge that I make is a charge that has
16 been made many times over. I make it very strongly
17 because we have suffered for two years. We have just
18 been to appeals with three issues with one very simple
19 one, emergency planning for farmers, the most abominable
20 plan that I think could have possibly been presented
21 where the NRC staff, the Commonwealth, the licensee and
22 the Board found as a single party. Every time the NRC
23 found as a single party with the licensee and the Board
24 following.

25 If you gentlemen are to earn the \$100,000,

1 which we would be glad to see you do if you represented
2 us and you can change that.

3 Thank you.

4 (Applause.)

5 MR. MOODY: Thank you, Mr. Aamodt.

6 Samuel W. Morris, a State Representative from
7 District 155.

8 (Applause.)

9 PRESENTATION OF STATE REPRESENTATIVE SAMUEL W. MORRIS

10 MR. MORRIS: As I watched these proceedings
11 begin there were 12 people over there in the box. It
12 made me think I was arguing a case before a jury.

13 (Laughter.)

14 MR. MORRIS: But with a group of experts like
15 that, I would hate to argue such a case, and in fact I
16 would certainly take all possible steps to have them
17 discharged from the panel. But I don't think that is
18 what we are involved in here.

19 I only heard about this hearing, if it is a
20 hearing, late on the work day of Monday. I have had two
21 very busy days, one in Harrisburg. So all I can give
22 you is a very short statement which I would like to
23 elaborate on with a written statement, as I will explain
24 at the end of what I want to say.

25 The Delaware River Basin Commission, which I

1 am sure you gentlemen are acquainted with, has been
2 conducting hearings on a proposed plan to I think
3 drastically alter the Delaware River Basin Compact,
4 which was approved by the Supreme Court of the United
5 States a good many years ago, now, and under which the
6 DRBC operates.

7 I have studied this plan and I had a
8 representative go to the last of these hearings and
9 deliver a critique which she and I worked out together.
10 I do not have the written form of that critique at this
11 point and that is what I would like to submit in due
12 course.

13 However, it seemed quite clear to us that the
14 proposal of this plan for modifying, and I say the
15 compact itself, although it is not stated to be such,
16 but it seemed to us it was obviously a result of
17 applications by the City of New York for more water in
18 the drought periods. The plan proposed calls for very
19 drastic, and I will repeat drastic reduction in the
20 requirements with regard to the salt incursion in the
21 Delaware in times of drought and I haven't got the
22 figures here for the reasons given.

23 There is no question in my mind that as a
24 result of all this, including all the additional water
25 supplies discussed in those proposed plans, and that

1 includes Merril Creek, make it touch and go as to
2 whether New York City could receive the water which they
3 claim they need in drought periods and that the Delaware
4 River from Trenton on down is going to be able to live
5 in the same condition as it is now. The industries
6 along the Delaware River on both sides in Pennsylvania
7 and New Jersey will be adversely affected in a rather
8 extreme way.

9 I simply cannot see how this Point Pleasant
10 diversion can be made to work under the exigencies which
11 now face the water supplies of Southeast Pennsylvania,
12 and particularly the problems of the Delaware River.

13 One of the things I have been involved in
14 almost since going into the Pennsylvania Legislature in
15 1970 have been various concerns regarding the water
16 situation in Southeast Pennsylvania. That is the thing
17 I would like to leave with you gentlemen as being
18 uppermost in my mind. Without the Point Pleasant
19 diversion, I don't see how this plant can exist, and
20 with it I don't see how the Delaware River can exist
21 with at least the populations along each side of the
22 Delaware and the industries on which they depend.

23 So if you will tell me where I can send
24 written information on this subject after the meeting
25 here, I will be very glad to do so, and thank you very

1 much for the opportunity to be here.

2 (Applause.)

3 MR. MOODY: Thank you, Representative Morris.

4 This gentleman had to leave early and I am
5 going to call him a little out of sequence.

6 Marvin Lewis.

7 PRESENTATION OF MARVIN LEWIS

8 MR. LEWIS: Thank you very much for the
9 consideration. I have to get to work tonight.

10 I have a study here. I am not going to read
11 the entire study. However, I have already give you a
12 copy and I will give a copy to the reporter and I wish
13 it to be given the same consideration as if I had read
14 it. I am only reading a one-page statement about the
15 study and I just want to make one disclaimer.

16 I am not going into the entire ER. There is
17 no way I could here. Everybody would be asleep in a
18 couple of hours. So I am just going into one part of
19 the ER. That does not mean that I believe the rest of
20 the ER is anywhere near acceptable.

21 These are my comments on the environmental
22 review for the Limerick Nuclear Power Plant.

23 My first comments concerns the lack of notice
24 and the lateness of the notice for this meeting. I
25 received a notice of the meeting a little before it was

1 scheduled. I got it two weeks ahead of time only
2 because I was on Karl Abraham's mailing list. Everybody
3 else got it around the 12th. I happened to be an
4 intervenor. I got it in my intervenor mail six days
5 before the 12th, which would have been the 6th, right.

6 Two, I received notice that there would be
7 this meeting in my intervenor mail only one week ago.
8 Since this is my only chance to inform the staff of my
9 concerns for the ER in a timely fashion, this is a
10 totally inadequate notice schedule.

11 Three, I am limiting my comments to one aspect
12 of the ER because I was given too short a notice to
13 prepare a full text of all my concerns. The aspect that
14 I shall limit my concerns to is the subsidy that drives
15 the supposed need for another nuclear power plant in the
16 overbuilt PECO service area.

17 (a) PECO is overbuilt. It has about 47
18 percent capacity overpeak load in the worst state in the
19 summer. When Limerick comes on line PECO will have
20 about 67 percent over summer peak load. The traditional
21 buffer that Pennsylvania PUC has considered adequate in
22 the past is about 20 percent over summer peak load.
23 This corresponds to the worst state in ten years. Those
24 numbers were gotten out of the PUC hearings, the latest
25 PUC PECO rate case hearings.

1 (b) However, the way that PECO is trying to
2 expand its sales of electricity to justify this
3 excessive overbuilding is with heat pumps and resistance
4 heating sales using a subsidized rate that shifts the
5 burden to the poor and away from the more affluent
6 customers that use electric heat. A promotional rate is
7 given to those customers with heat pumps or resistance
8 heating. This rate is referred to as "RH". This
9 promotional rate provides customers incentives to put in
10 heat pumps and resistance heating.

11 From the enclosed study it can be seen that
12 the promotional rate is taken advantage of by affluent
13 and better-to-do finally customers, whereas the regular
14 rate is paid by less affluent customers who wind up
15 actually subsidizing the more affluent.

16 (c) Therefore, the expansion of the electric
17 sales in the PECO area using promotional RH rates is at
18 the direct expense of the poorer PECO customer and the
19 richer customer gets the benefit.

20 (d) The EIS did not go into the effects of
21 the expansion of the electric sales on the poorer
22 customers that are subsidizing the promotional rate
23 without getting any benefit from it. This social aspect
24 of the poor paying for the rich without themselves
25 receiving any benefit must be evaluated in the ER.

1 Without this very important aspect of who pays and who
2 benefits and how these benefits and payments often hurt
3 the EIS and ER are very flawed.

4 I have one reference along that line which I
5 hope I can find. No, I can't. But anyway, I am talking
6 about the psychological stress decision that says, yes,
7 you do have to look at psychological distress. I think
8 that poor people who are subsidizing the rich through a
9 promotional rate are under a stress which could be
10 termed psychological and, therefore, that area should be
11 looked at in the ER.

12 (Applause.)

13 (The document submitted for the record by Mr.
14 Lewis follows:)

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July 29, 1982

Marvin I. Lewis
6504 Bradford Terr.
Philadelphia, PA 19149

Dear Mr. Lewis,

This study is in response to your request for an investigation into the promotion of Heatpump use by the Philadelphia Electric Company and whether their special rate for electric heat customers (RH) is appropriate. Along with this summary letter are three sets of enclosures. The first is a set of materials that are sent to customers by PECO upon request. They are designated P-1 to P-4. The second is data (D-1 to D-19) used in the calculations. All of the data is from PECO, either from Limerick hearing, rate hearings or from the PUC, except the data on heatpumps and oil burners. The GE Weathertron Heatpump was chosen since it is one of the most widely used units and is typical of heatpumps on the market. Finally, the calculations (C-1 to C-11) are made with the data previously described. Assumptions made are included on the calculations pages.

In conclusion, I have two recommendations for you to present to PECO and the Public Utility Commission:

1) Elimination of active heatpump promotion. Heatpumps will not save the customer money or save energy as advertised. Thus their promotion is not in the best interest of the PECO customer. Also the literature distributed upon request should be changed to eliminate misleading and false statements.

2) Elimination of RH heating rates and extension of the Over 500 KWH Summer Rate to year-round use. The use of Electric Heat drives up fuel costs and thus electric rates even more than the use of air conditioners in the summer. Presently the R customers are subsidizing the RH customers who increase PECO's fuel costs (oil and Purchase power) but receive a rate discount. Elimination of the RH rate would make sure that everyone pays their fair share, instead of having the poor subsidize the rich with electric heat under the present system. Then a year round extra charge for Over 500 KWH/month use encourage conservation and make those heavy users, that force PECO to use more oil and purchase power to meet the extra demand, to pay their fair share. This rate structure is now possible since the PUC has approved a monthly service charge which covers the cost of simply being connected to PECO even if you use no electricity in a given month. For RH customers, this change would be equivalent to the deregulation that oil and gas customers are presently experiencing, and thus eliminate the structure that keeps electric heat costs, like oil and gas, artificially low. This should mean a 70% increase for RH customers (less than the 200% gas customers are experiencing) and a 15% decrease for R customers that have been subsidizing the RH customers over the years.

The following is an examination of PECO Heatpump materials, sent upon request, that I consider misleading or false. From these I conclude that this material should be revised and active promotion of it should be ended.

1) "By absorbing heat from outdoor air, the Heat Pump can provide up to three units of heat for each equivalent unit of electricity required in operation This saves energy." (P-1)

This statement implies that because of a heat pumps high coefficient of performance, the heat pump saves energy. Actually the heat pump efficiency including fuel input to generate the electricity in the PECO system is only 42.5%. This compares to 81% for oil. Thus it is not clear how a heat pump with a low overall efficiency could save energy (calculations from C-4). This statement is only true for consideration of on site operation but would be misleading if the words "on-site" were added.

2) "THE MOST ENERGY-EFFICIENT HEATING SYSTEM COMMERCIALY AVAILABLE TODAY: THE ELECTRIC HEAT PUMP." (P-3)

As above, from calculations on C-4, we see that the heat pump is not more efficient from the standpoint of use of initial input energy than an on-site fossil fuel heating system. This statement is simply false.

3) "THE MOST ENERGY-EFFICIENT ON-SITE HEATING SYSTEM COMMERCIALY TODAY" (P-3)

As shown on C-1 and C-2 and thus on C-4, this statement is correct. Unfortunately it appears near the end of pamphlet P-3 after 2) had appeared in bold letters three times earlier. Also this statement can be misleading since it is easily confused with the meaning of statement 2).

4) "Saves energy and money at the same time" (P-1 & P-3)

Again from C-4, heat pumps do not save energy when compared to other heating systems. As far as saving money, from C-3, there is presently a slight advantage in fuel cost in favor of the heat pump due to the reduced RH rate over oil. Presently gas has the lowest cost of any heating fuel in the Philadelphia, but this could change as gas is deregulated. Electric rates may also rise dramatically if Limerick is completed and its costs go into the rate base. Presently, for new construction, a heat pump can not save money compared to installing gas due to the lower cost of gas. As far as conversion, C-3 shows that when equipment costs are included in the cost savings of adding a heat pump, the payback period is 27.5 years, just to break even. A payback of this length is generally considered unacceptable, thus making the statement that heat pumps save money incorrect in the PECO service area.

5) " a system which reduces your overall energy consumption and annual heating bills." (P-3)

This statement uses the word "overall". As already seen from C-4, your overall energy consumption is higher because of the low efficiency in making electricity and transmitting it. It is true that in a conversion from oil to a heat pump (but not for new construction or conversion from gas) will reduce your actual heating bill, but is misleading since it does not lower your overall heating costs when the cost of adding the heatpump is included.

6) "Saves Heating Fuel" (P-1)

This statement implies the savings of heating oil. It can't miss since in a conversion, oil is being replaced by electricity. Overall in the PECO system, it does not save oil (see 8)) or save energy as seen in 4).

7) "Heatpumps save oil"

While not stated specifically in these pamphlet, it is implied in heatpump promotion. See 8) for the problem with this statement.

8) "The electric heat pump powered by electricity generated principally from coal, water power and nuclear energy reduces both your and our nation's dependence on foreign oil for residential space heating."

This statement may be true for many utilities around the country for the following reasons:

- a) Most utilities are heavily summer peaking due to heavy use of air conditioners and little use of electric heating. This leads to:
- b) low generation costs during winter- coal and nuclear easily meet the low winter demand.
- c) unused capacity, even base loaded- this unused capacity could be used for heating thus making the equipment more profitable on a year round basis.

This statement can not apply to PECO for the following reasons:

- a) PECO is only slightly summer peaking- sales for the four summer months are only 2% higher than sales for the four winter months. Thus problems with meeting summer load also exist for winter months. (C-11)
- b) PECO is heavily dependent on Purchase Power, 37% of their sales according to D-1. According to PECO in rate hearings, about half of the purchased power is generated with oil. Because of the cost of purchase power, it along with oil are the last options. This special problem for PECO is seen on C-11 where winter heating months contain 3 out of the top 4 highest purchase months. The use of electric heat causes the need for the extra purchase power. Thus the fuel costs per kwh are the highest during these 3 heating months. Thus the use of electric heat drives up winter costs (like air conditioners do in the summer) by causing extra power to be purchased. As more electric heat is added, winter fuel costs will rise even higher as PECO is forced to buy more purchase power to meet the higher demand.

c) Heavy dependence on expensive purchase power means that PECO does not have the luxury of most utilities of having unused coal and nuclear capacity in the winter heating months. Thus promotion of electric heat will not make use of unused low fuel cost options, as with many utilities, but force the use of more oil and purchase power.

d) As explained in b) & c), low fuel cost options are totally committed. Thus in the winter, oil fired generation is heavily used. January, February and March are the 3 highest months for use of urban oil. Even when gas turbine fuel costs are added in (which are primarily used to meet summer daily peaks caused by air conditioners), these three winter months have 3 out of 4 of the highest months total oil costs (C-11). Like purchase power, oil which is expensive is most heavily used in winter months to meet the extra demand caused by electric heat users. Thus electric heat users are causing extra oil to be burned and are driving up generation costs in winter months.

e) Heavy dependence on purchase power and oil to meet winter demand (55% of Jan., Feb. and March sales) causes fuel costs ($\$/kwh$) to be highest in winter months, 3 out of the top 4 months). Thus electric heat is raising electric fuel costs as much or more in the winter as air conditioners raise summer fuel costs.

f) By adding heat pumps, PECO will be forced to meet the extra demand with oil and purchase power since coal and nuclear are already committed. Thus oil use on C-4 is calculated assuming half the new heat pump demand will be met with oil and half with purchase power (which is half oil fired). Thus in the PECO system, heatpumps will consume more oil than oil on-site furnaces and boilers. Heat pumps do not save oil because the statement in P-3 of where heat pump electricity comes from is not correct for the PECO system.

CONCLUSIONS- Heat Pump Pamphlets

1) Heat pumps are not the most efficient heating system available. They do not save energy or money. They are only marginally competitive with oil heat and only then because of the artificially low RH electric rate.

2) Many statements in the PECO heat pump pamphlets are false or misleading. The reader gets the impression that they will save money and energy with a heat pump. They will not.

RECOMMENDATIONS- Heat Pump Pamphlets

1) In the interest of PECO customers, active heatpump and resistance heat promotion should be stopped.

2) If PECO is to retain heat pump literature to be distributed upon request, it should be corrected, eliminating false and misleading statements. The material should project a more accurate view of expected results of heat pump use.

The following is an examination of the points that lead to the conclusion that rate should be restructured to make sure that electric heat customers pay their fair share for the electricity they use.

The PECO system is very different than other utilities because of the points made in 8) of the Heat Pump Pamphlet examination. To review them they are:

- a) PECO summer sales only 2% higher than winter sales. Thus most of the problems with meeting summer demand also exist for PECO meeting this high winter demand (C-11).
- b) PECO is heavily dependent on purchase power (37% of sales). Purchase power is very expensive and is only a last option. 3 of the top 4 purchase power months are during the winter.
- c) PECO's low cost options are fully committed. Thus electric heat does not use coal and nuclear which might be otherwise unused in the winter. The extra heating electric demand must be met with oil and purchase power.
- d) The 3 highest month for use of Urban Oil is in the coldest months of the winter. Even adding in gas turbine fuel costs, the winter months have 3 of the top 4 months for total oil costs (C-11). Electric heat causes the extra oil use in the same way that air conditioners cause extra demand and oil use in the summer. Oil generation is expensive thus electric heat is driving up the cost of winter generation.
- e) Heavy dependence on oil and purchase power causes winter months to have 3 of the top 4 fuel cost per kwh months. Thus electric heat raises PECO fuel costs as much or more than summer air conditioner use.
- f) Additional electric heat customers will make the winter demand higher and cause the need for more oil and purchase power. This will drive winter generation fuel costs even higher.

Examination of these six points together suggests that rate regarding electric heat users may not be proper. It seems as though electric heat is causing higher generation fuel costs in the winter. But unlike the summer situation where air conditioner users that cause higher costs of generation pay a higher rate for electricity over 500 kwh/month, electric heat users are rewarded with lower rates. Under the present rate structure, RH customers cause higher costs but get a discount for use over 500 kwh. For them to pay their fair share, over 500 kwh/month use should be charged the 9.7¢/kwh summer rate to pay for the extra oil and purchase power use they cause. Thus the R customers are presently paying higher rates than they should be to subsidize the artificially low RH rate.

As more customers add electric heat, dependence on expensive oil and purchase power during winter months will rise and thus winter generation costs will also rise. This will put a further burden on the R customer as they subsidize the low rates of the RH customer.

Next an examination of the average RH customer is necessary. Data is supplied from D-2 to D-10 and a composite of 1982 base load RH use is at the bottom of C-10. It is interesting to note that the average monthly base load use of RH customers during the heating season is 1121 kwh/month. The average for R customers is 500 kwh/mo. From the R base load, 500 kwh becomes the base for RH customers where over 500 get the RH discount. As we can see, about 1100 kwh/month should be the division line between the regular and RH rate, reflecting the RH base load use and not the R base use. Thus the R customer not only subsidizes the RH customers low rate for heating but also a discount rate for an extra 621 kwh/RH customer/month of base load. If the RH rate is to continue, the RH customers should be at least paying their fair share for their base load use. Thus the division between R rate and RH heating should be at 1100 kwh/mo. to more accurately reflect the base load use of RH customers. Presently R customer bills are 3% higher(C-10) because of this subsidy to RH customers. If RH customers grow as PECO predicts, by 1990 almost 6% of the R customer bill will go to subsidizing RH base load discounts.

It can also be assumed that since the baseload of the RH customer is over twice as high as that of the R customer, the average RH customer must be more wealthy to have the money to waste twice as much electricity per month. The average R customer not only does not have the money to pay for 1100 kwh/month base load but also does not own a large enough home to consume this much electricity. This puts the RH rate question in a new light if the rich tend to be RH customers and R customers are the poorer residents in the PECO service area. Thus we see that the poor are subsidizing the rich with electric heat. It is easy to see why the poor can't pay their electric bills when they aren't only paying their bill but subsidizing the rich with electric heat and so the rich can waste extra base load electricity at a discount rate. A more fair rate structure where everyone is paying their fair share might give the poor a fighting chance at paying their bills.

CONCLUSIONS- RH Rate Structure

- 1) Because of special circumstances with PECO, electric heat does not reduce generation cost per kwh but actually increases it because of the extra oil and purchase power needed to meet this added demand. In this way, electric heat is similar to air conditioner use in the summer.
- 2) Because coal and nuclear is already committed, additional demand from new electric heat customers will have to be met with expensive oil and purchase power, thus driving winter generating fuel costs even higher.
- 3) RH customers use more base electricity than R customers, over twice as much. Even so the base load-electric heating rate division line is based on R customer use. Thus the average RH customer receives 621 kwh of base power at a discounted rate each month during the heating season. The R customer thus subsidizes this discount.
- 4) It would seem that the rich tend to be in the RH category and the poor in the R category. Thus the poor are presently subsidizing the rich on both electric heat and the even 500 kwh/month base

RECOMMENDATIONS- Electric Heating Rate Structure

It is important that the rate structures that regulate the cost of electricity be changed so all customers pay their fair share for the electricity. Changing these rates are the equivalent to the deregulation currently going on of gas and oil heat. Like with oil and gas, electric heat has been priced artificially low in the past. Now that oil and gas are being deregulated, it is important that electric heat is also deregulated so each of these fuel can compete on a free market basis and everyone pays their fair share for the energy they are consuming.

The following two step deregulation would make this possible:

- 1) Elimination of the RH customer category. The RH customer presently receives a discount but should actually receive an extra charge since it is the extra demand for electric heat that raises generation costs.
- 2) A year round rate of 9.7¢/kwh as presently used in the summer, over 50¢/kwh in the winter. This would accomplish the following with a rate of 9.7¢/month over \$500 kwh:
 - a) Charge electric heat users a fair rate that reflect the cost of generating the electricity they use the way air conditioner users help pay the extra cost associated with the demand meeting costs of their use.
 - b) Charge electric space heater users for the extra demand meeting problems caused by their use. This is also similar to the extra charge air conditioner customers presently pay.
 - c) Encourage conservation. Those who are wasting electricity (such as the high base load of RH customers) would be penalized for causing more oil and purchase to be used and thus driving up costs. This type of conservation rate structure is now possible because the monthly service charge now used. This charge will cover the hook up and administrative charges of those who conserve.

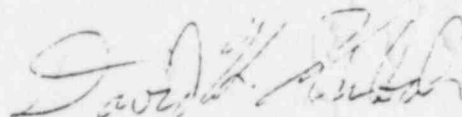
These changes would mean an average reduction of \$53.87 per R customer per heating season. This amounts to almost 15% of the present bill, thus the amount the R customer is overcharged. According to PECO predictions of RH customer growth, this subsidy of RH customers by R customers would account for almost 29% of the average R bill by 1990. It is clear that the poor will not be able to pay their electric bill if over 1/2 of it goes to paying the heating bills of the rich. (C-10)

The bill for electric heating would increase about 70%, far less that the price tripling that gas users will experience by 1985.

If these changes are not made so everyone pays their fair share, my recommendation for a minimum action would be to raise the division between base use and heating use for RH customers from 500 to 1100 kwh/month. This would more accurately reflect the RH base use instead of R customer base used at present. This would reduce the R customer electric bill by 3% during the heating season. If not eliminated, this poor to rich subsidy would grow to almost 6% by 1990 (C-10).

I hope that you are successful in getting some changes in these present PECO policies. The poor sure don't need the extra burden of subsidizing the bills of the rich.

If I can be of any further service to you please contact me. Also don't hesitate in contacting me if you are not clear about anything in this study.



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HEATPUMP HEATING SEASONAL PERFORMANCE FACTOR (HSPF)

GE Weathertron 3 ton range

From GE Product Data (D-14 to D-17)

Ambassador Model with 14 different air handlers (D-15)

(BTU/watt-hr)	(BTU/BTU)	
6.00	1.76	
6.05	1.77	
6.10	1.79	
5.95	1.74	
6.05	1.77	
6.30	1.85	HIGH 1.85
5.80	1.70	
6.00	1.76	LOW 1.70
6.10	1.79	
6.05	1.77	
6.10	1.79	<u>AVERAGE 1.78</u>
5.90	1.73	
6.05	1.77	
6.30	1.85	

Executive Model with 13 different air handlers (D-17)

(BTU/watt-hr)	(BTU/BTU)	
6.10	1.79	
6.20	1.82	
6.25	1.83	
6.05	1.77	
6.20	1.82	
6.50	1.90	
6.10	1.79	HIGH 1.90
6.25	1.83	
6.20	1.82	LOW 1.77
6.30	1.85	
6.05	1.77	
6.20	1.82	<u>AVERAGE 1.82</u>
6.50	1.90	

WEATHERTRON SUMMARY

HEATING SEASONAL PERFORMANCE FACTOR

HIGH 1.90

LOW 1.70

AVERAGE 1.80

OIL BOILER/BURNER EFFICIENCY

EFM Product Data (D-18 to D-19)

	PK500T	PK750T	K950T	K1200T
Input BTU	138,000	186,000	242,000	304,000
Heating Capacity*	119,000	161,000	210,000	252,000
EFFICIENCY	86.2%	86.6%	86.8%	82.9%

AVERAGE 85.6%

*Note Net Output is not used since it includes distribution losses and radiator efficiencies. Heating Capacity is used since it offers the figures on heat available from the heating unit. This must be used for a comparison since no equivalent Net Output figures are available for heatpumps.

This average efficiency is for a new boiler/burner unit.

I have been informed by an area oil dealer that an older boiler with a burner with a flame retention head can expect a lower efficiency of around 81%. This does not include oil units that have been converted from coal. Thus for calculations, an average efficiency of 81% will be used for oil units.

OLDER BOILER AVERAGE EFFICIENCY 81%

HEATING COSTS

HEATPUMP vs. OIL HEAT

(Efficiencies from C-1 & C-2, Energy costs as of July 1982)

OIL

$$\frac{138,000 \text{ BTU}}{\text{Gal. \#2 Oil}} \times \frac{\text{Gal. \#2 Oil}}{\$1.169} \times .81 \text{ efficiency} = 95,620 \frac{\text{BTU}}{\$}$$

HEATPUMP

$$\frac{3413 \text{ BTU}}{\text{kwh}} \times \frac{\text{kwh}}{\$.057} \times 1.80 \text{ efficiency} = 107,779 \frac{\text{BTU}}{\$}$$

CONVERSION

It is assumed that the comparison is done on a oil unit being converted to a heatpump. Actually a heatpump would be added and the oil be used as backup for temperatures below the heatpump balance point. Thus use figures are taken from D-10. New construction is not considered since this is a cost comparison and due to the low cost of gas, on a cost basis gas would be installed before a heatpump or oil.

HEATPUMP

$$\frac{8100 \text{ kwh}}{\text{heating season}} \times \frac{\$.057}{\text{kwh}} = \$461.70/\text{heating season} + \text{backup heat}$$

OIL (replaced by conversion)

$$\frac{\$461.70}{\text{heating season}} \times \frac{107,779 \text{ BTU}}{\$ (\text{heatpump})} \times \frac{\$ (\text{oil})}{95,620 \text{ BTU}} = \frac{\$520.41}{\text{heating season}}$$

SAVINGS (in fuel costs by conversion)

$$\$520.41 - \$461.70 = \$58.71/\text{heating season}$$

Cost of Heatpump without air handler (assumed to already be with oil unit)

GE Weathertron BWR730	\$1147	(from local heatpump dealer)
Installation (est.)	400	
Tax	69	
	<u>\$1616</u>	

Assuming electric rates will rise at the rate of inflation, future dollar savings will be equivalent to present dollar savings.

Thus:

Payback excluding finance charges:

$$\frac{\$1616}{\text{heatpump}} \times \frac{\text{year}}{\$58.71} = 27.5 \text{ years Payback}$$

ON-SITE EFFICIENCY

OIL (from C-2) 81%
HEATPUMP (from C-1) 180%

OVERALL EFFICIENCY

OIL 81%

HEATPUMP

Since the heating months require extra oil and purchase power electricity (see D-1) and coal and nuclear are already fully committed, it is assumed that the extra electric demand from heatpumps would have to be met with oil and purchase power. It is assumed that the demand is met with $\frac{1}{2}$ oil and $\frac{1}{2}$ purchase power.

It is assumed that purchase power consists of 50% from oil fired units and 50% from coal and nuclear.

Thus 75% of the electricity for heatpumps extra electric demand is met with oil fired units and 25% is from coal and nuclear units.

$$\begin{array}{ccccccc}
 ((.75 \times .25) + (.25 \times .30)) & \times & .90 & \times & 1.80 & = & .425 & \underline{42.5\%} \\
 \text{oil fraction} & \uparrow & \text{coal \& nuc} & \uparrow & \text{transmission} & \uparrow & & \\
 \text{efficiency} & & \text{efficiency} & & \text{losses} & & & \\
 & & \text{coal \& nuc} & & & & \text{heatpump} & \\
 & & \text{efficiency} & & & & \text{efficiency} &
 \end{array}$$

OIL USE

OIL HEAT

$$1 \text{ Gal. \#2 Oil} \times \frac{138,000 \text{ BTU}}{\text{Gal. \#2 Oil}} \times .81 \text{ (eff.)} = 111,780 \text{ BTU}$$

HEATPUMP

$$\begin{array}{ccccccc}
 1 \text{ Gal \#6 Oil} & \times & \frac{154,000 \text{ BTU}}{\text{Gal. \#6 Oil}} & \times & .25 & \times & \frac{4}{3} & \times & .90 & \times & 1.80 & = & 83,160 \text{ BTU} \\
 & & & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \\
 & & & & \text{oil} & & \text{add} & & \text{trans.} & & \text{heatpump} & & \\
 & & & & \text{eff.} & & \text{coal \& nuc} & & \text{losses} & & \text{eff.} & &
 \end{array}$$

$$\frac{111,780 \text{ BTU (oil heat)}}{83,160 \text{ BTU (heatpump)}} = 1.344$$

Using oil heat, 34.4% more heat can be obtained from each gallon of oil than if a heatpump is used in the PECO system.

RH CUSTOMER SUMMARY

Data from D-11 to D-13

Assumptions

- 1) All New Construction with heatpumps use electric resistance backup
- 2) All Conversions use existing fossil fuel system as backup.
- 3) All units installed before 1970 at electric resistance (note trend on D-13)

Additional units 1970-79 (Adding columns on D-12)

	New Con. HP	Conversion HP	Resistance	Total
1970-79	15,275	756	31372	47,403

Total Units 1979 (from D-13)	74600
Total added units 1970-79	<u>-47403</u>
UNITS BEFORE 1970	<u>27197</u>
Resistance added 1970-79	<u>+31372</u>
TOTAL RESISTANCE IN 1979	<u>58569</u>

	New Con. HP	Conversion HP	Resistance	Total
1979	15,275	756	58,569	74,600
Add. 1979-82	<u>16,590</u>	<u>2880</u>	<u>8,730</u>	<u>28,200</u>
1982	31,865	3,636	67,299	102,800
Add. 1983-90	<u>53,190</u>	<u>17,560</u>	<u>29,730</u>	<u>100,480</u>
1990	85,055	21,196	97,029	203,280*

* Note The Totals from D-12 & D-13 do not correspond exactly.

1982 & 1990 RH Electric Use During Heating Season (October to May)

Data from C-5 and D-2 to D-10

		Totals	
		1982	1990
Resistance Heating			
Average Customer	Customers	67,299	97,029
Heating (kwh)	11,278		
Base	8,935		
Total	20,213		
Under 500 kwh	-4,000 x \$.0846/kwh =	\$338.40	
Over 500 kwh	16,213 x \$.057/kwh =	924.14	
	8 Month Service Charge=	28.00	
	Heating Season Total =	\$1290.54	

Base Load = 8935
 Under 500 kwh = -4000
 Over 500 kwh in Base = 4935

4935 kwh x (\$.0846-.057)/kwh=\$136.21 \$9.2 million \$13.2 million

All Electricity at \$.0846
 20213 x \$.0846/kwh = \$1710.02
 8 month Service Ch.= 28.00
\$1738.02
 Present -1290.54
 Difference \$ 447.48

\$30.1 million \$43.4 million

Over 500 Kwh at \$.097
 16,213 x \$.097/kwh = \$1572.66
 Under 500 kwh/mo. = 338.40
 8 month Service Ch. = 28.00
\$1739.06
 Present -1290.54
 Difference \$ 648.52

\$43.6 million \$62.9 million

1982 & 1990 RH Electric Use During Heating Season (October to May)

Data from C-5 and D-2 to D-10

	Totals	
	1982	1990
Heatpump with Electric Resistance Backup		
Average Customer	Customers 31,865	85,055

Heating (kwh)	12,284	
Base	9,453	
Total	21,736	
Under 500 kwh	-4,000	x \$.0846/kwh = \$ 338.40
Over 500 kwh	17,736	x \$.057/kwh = 1010.95
		8 month Service Charge= 28.00
Heating Season Total		= \$1377.35

Base Load	=	9453
Under 500 kwh	=	-4000
Over 500 kwh in Base	=	5453

5453 kwh x (\$.0846-.057)/kwh=\$150.50 \$4.8 million \$12.8 million

All Electricity at \$.0846/Kwh		
	21,736 x .0846/kwh =	\$1838.87
	8 month Service Ch.=	28.00
		\$1866.87
	Present	-1377.35
	Difference	\$ 489.52
		\$15.6 million \$41.6 million

Over 500 Kwh at \$.097/Kwh		
	17,736 x \$.097/kwh =	\$1720.39
	Under 500 kwh =	338.40
	8 month Service Ch.=	28.00
		\$2086.79
	Present	-1377.35
	Difference	\$ 709.44
		\$22.6 million \$60.3 million

1982 & 1990 RH Electric Use During Heating Season (October to May)

Data from C-5 and D-2 to D-10

		Totals	
		1982	1990
Heatpump with Fossil Fuel Backup	Customers	2,880	21,196
Average Customer			

Heating (kwh)	8,100		
Base	5,453		
Total	14,053		
Under 500 kwh	-4,000	x \$.0846/kwh =	\$338.40
Over 500 kwh	10,053	x \$.057/kwh =	573.02
		8 month Service Charge=	28.00
		Heating Season Total =	\$939.42

Base Load	=	5453
Under 500 kwh	=	-4000
Over 500 kwh in Base	=	1453

1453 kwh x (\$.0846-.057)/kwh=\$40.10 \$.12 million \$.85 million

All Electricity at \$.0846/Kwh

14,053 x \$.0846/kwh =	\$1188.88
8 month Service Ch. =	28.00
	<u>\$1216.88</u>
Present	- 939.42
Difference	\$ 277.46

\$.66 million \$5.9 million

Over 500 kwh at \$.097/kwh

10,053 x \$.097/kwh =	\$ 975.14
Under 500 kwh =	338.40
8 month Service Ch. =	28.00
	<u>\$1341.54</u>
Present	- 939.42
Difference	\$ 402.12

\$1.2 million \$8.5 million

Total 1982 & 1990 RH Electric Use During Heating Season (October to May)
Totaling C-6, C-7 & C-8

	1982	1990
OVER 500 KWH USE IN BASE LOAD		
Resistance	\$9.2 million	\$13.2 mill
Heatpump with Electric Backup	4.8	12.8
Heatpump with Fossil Fuel Backup	.1	.8
TOTAL	\$14.1 million	\$26.8 mill

ALL ELECTRICITY SOLD AT \$.0846/KWH (Difference from present)

Resistance	\$30.1 million	\$43.4 mill
Heatpump with Electric Backup	15.6	41.6
Heatpump with Fossil Fuel Backup	.7	5.9
TOTAL	\$46.4 million	\$90.9 mill

OVER 500 KWH/MONTH SOLD AT \$.097/KWH (Difference from present)

Resistance	\$43.6 million	\$62.9 mill
Heatpump with Electric Backup	22.6	60.3
Heatpump with Fossil Fuel Backup	1.2	8.5
TOTAL	\$67.4 million	\$131.7 mill

R CUSTOMER SUBSIDY TO RH CUSTOMERS

	1982	1990
Total No. of R & RH Customers	1,353,982*	1,456,600
Total No. of RH Customers	-102,800	-203,280
Total No. of R Customers	1,251,182	1,253,320

OVER 500 KWH USE IN BASE LOAD OF RH CUSTOMERS

RH Customer Extra Use	\$14,100,000	\$26,800,000
Subsidy / R Customer / Heating Season	\$11.24	\$21.38
Percent higher payment by R Customer **	3.0%	5.8%

ALL ELECTRICITY SOLD AT \$.0846/KWH (Difference from present)

RH Customer Difference	\$46,400,000	\$90,900,000
Subsidy / R Customer / Heating Season	\$37.08	\$72.50
Percent higher payment by R Customer**	10.1%	19.8%

OVER 500 KWH/MONTH SOLD AT \$.097/KWH (Difference from present)

RH Customer Difference	\$67,400,000	\$131,700,000
Subsidy / R Customer / Heating Season	\$53.87	\$105.08
Percent higher payment by R Customer**	14.7%	28.7%

*Proportionally between 1979 & 1990 figures from D-13

**Assuming an Average R Customer Monthly Use of 500 Kwh.

EXTRA BASELOAD USE PER RH CUSTOMER 1982

\$14,100,000 / 102,800 customers / 8 months / (8.46-5.7¢/kwh) = 621 kwh extra
 cust-mor

500kwh + 621 kwh = 1121 kwh/month Baseload for RH customers

MONTHLY RANKING OF PECO ESTIMATED FUEL COSTS FOR 1982

(Data from B-1, Energy Cost Rate Statement No.4 Schedule E-2)

MONTH	Fuel Costs ¢/kwh (14/32)	Ranking	Urban Oil (2)	Gas Turbine (5)	Purch. (13)	Total Oil Costs (2+5)	Ranking
January	3.95	2	3		1	\$21,760,708	4
February	4.04	1	1	1	3	31,456,708	1
March	3.60		2			22,607,715	3
April	2.70					13,401,575	
May	3.00					14,768,037	
June	3.66			4		20,046,918	
July	3.42			2		17,457,535	
August	3.94	3	4	3	2	22,795,467	2
September	3.21					16,928,813	
October	3.49					18,867,013	
November	3.82	4			4	18,283,590	
December	2.94					15,123,803	

SUMMER vs. WINTER SALES (from line 32)

Summer Sales (June-September)	9,573,045 MWH
Winter Sales (December-March)	<u>9,386,742 MWH</u>
Difference	186,303 MWH

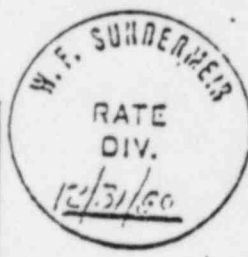
Percentage Difference - Summer Sales 1.98% Higher than Winter Sales

D-1

Philadelphia Electric Company
Energy Costs and Sales
Estimated 1/1/82 through 12/31/82

Line No.	Estimated Basic Data	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	12 Month Totals
1.	Fuel Cost - Steam Generation - B	4,766,000	3,922,000	4,832,000	6,410,000	7,572,000	7,181,000	4,976,000	6,449,000	4,948,000	4,453,000	4,935,000	49,430,000
2.	Fossil Fuelled Steam Generation - C	19,184,000	26,436,000	20,372,000	17,905,000	13,348,000	17,081,000	11,348,000	18,816,000	15,388,000	17,736,000	14,276,000	202,224,000
3.	" - " - D	0	0	0	0	0	0	0	0	0	0	0	0
4.	" - " - E	0	0	0	0	0	0	0	0	0	0	0	0
5.	" - " - F	0	0	0	0	0	0	0	0	0	0	0	0
6.	Sub-Total Fossil Fuel Generation	23,950,000	30,358,000	25,204,000	24,315,000	17,920,000	24,162,000	16,324,000	25,265,000	20,338,000	22,189,000	19,211,000	251,654,000
7.	Nuclear Generation (Excl. Financing Charges)	3,093,428	3,221,407	3,796,481	3,750,737	3,750,737	3,750,737	3,750,737	3,750,737	3,750,737	3,750,737	3,750,737	45,009,000
8.	Total System Generation	27,043,428	33,579,407	29,000,481	28,065,737	21,670,737	27,912,737	20,074,737	29,015,737	24,088,737	25,939,737	23,000,000	296,663,000
9.	Firm Purchases	0	0	0	0	0	0	0	0	0	0	0	0
10.	Interchange Received	25,519,540	33,852,540	46,893,540	30,178,540	27,813,540	47,060,540	49,421,540	37,511,540	49,193,540	47,127,540	30,710,540	519,679,412
11.	Firm Sales (Other than those shown on Ln. 30)	0	0	0	0	0	0	0	0	0	0	0	0
12.	Interchange Delivered	(240,000)	(435,000)	(265,000)	(278,000)	(791,000)	(1,033,000)	(1,123,000)	(1,113,000)	(1,331,000)	(1,422,000)	(1,532,000)	(15,222,000)
13.	Total Energy Costs Purchased and Interchanged	19,079,540	33,417,540	46,630,540	29,897,540	27,022,540	46,027,540	48,298,540	36,400,540	47,862,540	45,705,540	29,178,540	504,457,412
14.	Total Cost of Energy	42,992,968	63,775,947	71,834,921	54,212,737	44,940,737	71,174,737	62,645,737	61,676,477	68,198,280	67,894,237	52,379,540	1,006,111,412
15.	Net System Import - MWH	0	0	0	0	0	0	0	0	0	0	0	0
16.	System Fossil Generation - B	217,000	203,000	240,000	343,000	348,000	375,000	315,000	313,000	316,000	321,000	344,000	3,461,000
17.	" - " - C	280,000	380,000	301,000	272,000	181,000	235,000	119,000	210,000	192,000	237,000	146,000	2,704,000
18.	" - " - D	549,000	270,000	317,000	284,000	765,000	307,000	371,000	310,000	318,000	314,000	318,000	3,543,000
19.	" - " - E	27,067	89,539	16,164	6,439	12,162	27,831	55,837	37,191	42,523	45,623	48,135	513,412
20.	Sub-Total Fossil Fuel Generation	1,073,067	972,539	874,164	910,239	536,162	944,831	861,837	970,391	907,023	938,246	876,135	10,271,412
21.	Nuclear Generation	478,541	544,583	605,087	623,712	600,454	644,811	641,811	641,811	641,811	641,811	641,811	7,803,518
22.	Pre-Commercial Generation	112,000	138,000	227,000	208,000	161,000	31,000	0	0	0	0	0	1,231,500
23.	Hydro & Pumped Storage	1,413,428	1,405,142	1,504,331	1,338,131	1,412,336	1,338,131	1,338,131	1,405,142	1,405,142	1,338,131	1,338,131	16,500,000
24.	Total System Generation	3,135,018	3,863,262	4,188,602	3,813,103	3,140,000	4,362,565	3,666,667	4,016,633	4,016,633	4,016,633	4,016,633	48,271,412
25.	Firm Purchases	0	0	0	0	0	0	0	0	0	0	0	0
26.	Interchange Received and Purchased	(4,100)	(5,000)	(3,000)	(4,100)	(11,000)	(10,700)	(3,400)	(2,900)	(3,000)	(3,100)	(4,100)	(38,900)
27.	Interchange Delivered	2,418,448	2,331,370	2,478,369	2,312,139	2,218,922	2,487,036	2,453,810	2,455,003	2,258,031	2,305,488	2,310,811	28,311,412
28.	Total Projected System Net Generation	1,314,348	1,321,370	1,715,602	1,005,103	1,029,000	1,368,865	1,030,067	1,018,733	1,013,633	1,013,538	1,013,538	12,242,512
29.	System Sales - MWH	0	0	0	0	0	0	0	0	0	0	0	0
30.	Baseload (PCCO)	2,113,413	2,194,713	2,186,813	2,079,113	1,878,213	2,168,713	2,470,013	2,162,213	2,135,813	2,135,413	2,135,413	26,452,412
31.	Baseload (PCCO plus Interdepartmental)	59,498	53,897	53,998	47,818	43,919	37,899	37,899	37,899	37,899	37,899	37,899	458,192
32.	Baseload (to CP)	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	108,000
33.	Total Projected Sales	7,391,911	7,316,910	7,338,811	7,175,931	6,969,931	7,327,611	7,046,911	7,046,911	7,046,911	7,046,911	7,046,911	85,311,412

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COPY #3

PHILADELPHIA ELECTRIC COMPANY
PHILADELPHIA

REPORT 48438-B

1978-79 RESIDENTIAL ELECTRIC HEATING SURVEY
OF CUSTOMERS HAVING HEAT PUMPS WITH
SUPPLEMENTARY ELECTRIC RESISTANCE HEATING

PHILADELPHIA AND SUBURBAN DIVISIONS

AVERAGE CUSTOMER CHARACTERISTICS

RESEARCH AND TESTING DIVISION
ENGINEERING AND RESEARCH DEPARTMENT

December 31, 1980

TABLE 1
1972-79 RESIDENTIAL ELECTRIC HEATING SURVEY - HEAT PUMP WITH ELECTRIC SUPPLEMENTARY HEAT

AVERAGE CUSTOMER LOAD CHARACTERISTICS

	Annual (a)	Heating Period (a)	Winter Tests Periods (b)			Cooling Period (a)	Summer Tests Periods (b)			
			Combined Weeks	First Week	Second Week		Hot Weeks		Cool Weeks	
							First	Second	First	Second
ENERGY USE PER CUSTOMER, kWh										
Space heating/cooling load	13,538	12,284								
Test period			745.8	388.4	357.4		107.0	130.0	12.7	12.4
Average weekday			74.6	77.7	71.5		21.4	26.0	2.5	2.5
Base load (c)	13,867	9,453								
Test period			425.7	206.3	219.4		187.9	175.5	179.2	176.1
Average weekday			42.6	41.3	43.9		37.6	35.2	35.9	35.2
Total residence load	27,405	21,736								
Test period			1171.5	594.7	576.8		294.9	305.5	191.9	188.5
Average weekday			117.1	118.9	115.4		59.0	61.1	38.4	37.7
MAXIMUM HEATING/COOLING LOAD DEMAND PER CUSTOMER, kW										
Diversified maximum demand (d)										
Test period			5.630	5.630	4.581		1.945	2.983	0.597	0.491
Day			Tuesday	Tuesday	Tuesday		Wednesday	Wednesday	Friday	Tuesday
Half-hour ended			7:30 AM	7:30 AM	6:30 AM		5:30 PM	4:30 PM	5:30 PM	4:30 PM
Average weekday			4.210	4.641	3.737		1.585	1.663	0.226	0.221
Half-hour ended			7:30 AM	7:30 AM	7:30 AM		5:30 PM	4:30 PM	6:30 PM	5:30 PM
Noncoincident maximum demand										
Test period			10.544	10.111	8.369		3.345	4.033	1.733	0.899
MAXIMUM BASE LOAD DEMAND PER CUSTOMER, kW										
Diversified maximum demand (d)										
Test period			3.671	3.213	3.671		2.797	2.456	2.458	2.573
Day			Wednesday	Tuesday	Wednesday		Thursday	Thursday	Wednesday	Tuesday
Half-hour ended			8:00 PM	7:00 PM	8:00 PM		5:00 PM	7:00 PM	9:30 PM	7:30 PM
Average weekday			2.841	2.786	3.055		2.380	2.037	1.887	2.221
Half-hour ended			7:00 PM	8:00 PM	7:00 PM		8:30 PM	8:30 PM	6:30 PM	8:30 PM
Noncoincident maximum demand										
Test period			10.116	8.891	9.388		7.628	7.212	7.599	7.068
MAXIMUM TOTAL LOAD DEMAND PER CUSTOMER, kW										
Diversified maximum demand (d)										
Test period			7.487	7.487	6.642		4.518	3.560	2.521	2.835
Day			Tuesday	Tuesday	Tuesday		Thursday	Wednesday	Wednesday	Tuesday
Half-hour ended			7:30 AM	7:30 AM	9:00 PM		5:00 PM	4:30 PM	9:30 PM	7:30 PM
Average weekday			6.223	6.637	5.841		3.649	3.578	2.113	2.337
Half-hour ended			8:00 AM	8:00 AM	7:30 AM		5:00 PM	8:30 PM	6:30 PM	8:30 PM
Noncoincident maximum demand										
Test period			14.700	14.151	13.080		9.262	9.251	7.835	7.437

a) Obtained from installed test equipment and adjusted to calendar months.

b) Test periods contain only weekdays.

c) Base load is the calculated difference between total residence use and space heating/cooling use.

d) Individual customer method of metering; integrated clock half-hour demand; Eastern Standard Time.

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TABLE 1 (Continued)
 1978-79 RESIDENTIAL ELECTRIC HEATING SURVEY - HEAT PUMP WITH ELECTRIC SUPPLEMENTARY HEAT

AVERAGE DESIGN LOAD CHARACTERISTICS

	Annual (a)	Heating Period (a)	Winter Tests Periods (b)			Cooling Period (a)	Summer Tests Periods (b)				
			Combined Weeks	First Week	Second Week		Hot Weeks		Cool Weeks		
						First	Second	First	Second		
LOAD FACTOR, PERCENT											
Heating/cooling load											
Based on diversified demand											
Maximum			55.2	57.5	65.0		45.9	43.6	17.8	21.0	
Average weekday maximum demand			73.8	69.7	79.7		56.3	57.5	46.9	46.6	
Based on noncoincident maximum demand			29.5	32.0	35.6		26.7	26.9	6.1	11.5	
Base load											
Based on diversified demand											
Maximum			48.3	53.5	49.8		56.0	59.6	60.7	57.1	
Average weekday demand			62.4	61.7	59.8		65.8	71.8	79.1	66.1	
Based on noncoincident maximum demand			17.5	19.3	19.5		20.5	20.3	19.6	20.8	
Total load											
Based on diversified demand											
Maximum			65.2	66.2	72.4		54.4	64.0	63.4	55.4	
Average weekday maximum demand			78.4	74.7	82.3		67.4	71.2	75.7	67.2	
Based on noncoincident maximum demand			33.2	35.0	36.7		25.5	27.5	20.4	21.1	
COINCIDENCE FACTOR PERCENT											
Heating/cooling load											
Based on diversified maximum demand											
			53.4	55.7	54.7		56.1	61.6	34.4	54.6	
Based on avg. weekday max. demand			39.9	45.9	44.7		47.4	46.7	13.0	24.6	
Base load											
Based on diversified demand											
			36.3	36.1	39.1		36.7	34.1	35.3	36.4	
Based on avg. weekday max. demand			26.1	31.3	32.5		31.2	28.2	24.8	31.4	
Total load											
Based on diversified demand											
			53.9	52.9	50.8		48.6	43.0	32.2	38.1	
Based on avg. weekday max. demand			42.3	46.9	44.7		39.4	36.7	27.0	31.4	
OUTDOOR TEMPERATURE DATA (e)											
Degree days											
Total for the test period											
	5,033	5,003	315	162	153						
For average weekday			31.5	32.4	31.0						
Effective degree hours											
Total for the test period											
						8,503	885	616	14	65	
For average weekday							177.0	123.2	2.8	13	
TEST PERIOD											
From	12-1-78	12-1-78	10-1-79	12-11-78	12-11-78	12-1E-78	6-1-79	7-23-79	7-30-79	6-11-79	8-13-79
To	11-30-79	5-21-79	11-30-79	12-22-78	12-15-78	12-22-78	5-30-79	7-27-79	8-3-79	6-15-79	8-17-79
NUMBER OF THERMISTERS TESTED											
			40	40	40		40	40	40	40	

(e) Degree days are based on 65° dry bulb temperature and effective cooling hours are based on 75° dry bulb and 65° wet bulb temperature.

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PHILADELPHIA ELECTRIC COMPANY
PHILADELPHIA

REPORT 48440-B

1978-79 RESIDENTIAL ELECTRIC HEATING SURVEY
OF CUSTOMERS HAVING RESISTANCE HEATING

AVERAGE CUSTOMER CHARACTERISTICS

RESEARCH AND TESTING DIVISION
ENGINEERING AND RESEARCH DEPARTMENT

January 30, 1981

1 (Continued)
 1-10 RESIDENTIAL ELECTRIC HEATING SURVEY - ELECTRIC RESISTANCE HEAT

LOAD DESIGNER LOAD CHARACTERISTICS

	Annual (a)	Heating Season	Winter Tests Periods (b)			Summer Tests Periods (b)				
			Combined Weeks	First Week	Second Week	Hot Weeks		Cool Weeks		
						First	Second	First	Second	
LOAD FACTOR, PERCENT										
Heating load										
Based on diversified demand			60.8	57.4	80.5					
Maximum			83.0	75.4	87.5					
Average weekday maximum demand			38.0	35.6	51.1					
Based on noncoincident maximum demand										
Base load										
Based on diversified demand			53.9	57.2	59.9					
Maximum			68.4	69.1	67.9					
Average weekday demand			19.3	20.8	22.6					
Based on noncoincident maximum demand										
Total load										
Based on diversified demand						60.6	59.2	67.5	58.7	
Maximum			63.2	63.9	78.6	72.9	72.5	76.9	73.8	
Average weekday maximum demand			84.8	78.9	87.8	25.2	26.7	22.4	20.2	
Based on noncoincident maximum demand			35.2	33.0	44.9					
INCIDENCE FACTOR PERCENT										
Heating load										
Based on diversified maximum demand			62.5	61.9	63.4					
Based on avg. weekday max. demand			45.7	47.2	58.4					
Base load										
Based on diversified demand			35.9	36.4	37.6					
Based on avg. weekday max. demand			28.3	30.1	33.2					
Total load										
Based on diversified demand						41.5	45.1	33.2	34.4	
Based on avg. weekday max. demand			55.7	51.6	57.1	34.5	36.8	29.2	27.4	
INDOOR TEMPERATURE DATA (c)										
Degree days										
Total for the test period	5000	4946	308	109	199					
For average weekly			30.8	21.8	39.8					
Effective degree hours										
Total for the test period						855	616	14	65	
For average weekly						177.0	123.2	2.8	13.0	
TEST PERIOD										
From	2-1-79	2-1-79	10-1-79	12-10-79	12-10-79	12-17-79	7-23-79	7-30-79	6-11-79	8-13-79
To	1-31-80	5-31-79	1-31-80	12-21-79	12-14-79	12-21-79	7-27-79	8-3-79	6-15-79	8-17-79
NUMBER OF CUSTOMERS TESTED										
			43	43	43	43	43	43	43	

c) Degree days are based on 65° dry bulb temperature and effective cooling hours are based on 75° dry bulb and 65° wet bulb temperature.

TABLE 1
1979-80 RESIDENTIAL ELECTRIC HEATING SURVEY - ELECTRIC RESISTANCE HEAT

AVERAGE CUSTOMER LOAD CHARACTERISTICS

	Annual (a)	Heating Season (a)	Winter Tests Periods (b)			Summer Tests Periods (b)			
			Co-joined Weeks	First Week	Second Week	Hot Weeks		Cool Weeks	
						First	Second	First	Second
ENERGY USE PER CUSTOMER, kWh									
Space heating load	11,278	11,278							
Test period			690.7	232.8	457.8				
Average weekday			69.1	46.6	91.6				
Base load (c)	13,176	8,935							
Test period			432.7	192.1	240.6				
Average weekday			43.3	38.4	48.1				
Total residence load	24,454	20,213							
Test period			1123.4	424.9	698.5	209.6	222.8	173.7	157.3
Average weekday			112.3	85.0	139.7	41.9	44.6	34.7	31.7
MAXIMUM HEATING LOAD DEMAND PER CUSTOMER, kW									
Diversified maximum demand (d)			4.739	3.380	4.739				
Test period			Friday	Friday	Friday				
Day			8:00 AM	8:00 AM	8:00 AM				
Half-hour ended			3.468	2.574	4.362				
Average weekday			8:00 AM	8:00 AM	8:00 AM				
Half-hour ended									
Noncoincident maximum demand									
Test period			7.582	5.457	7.470				
MAXIMUM BASE LOAD DEMAND PER CUSTOMER, kW									
Diversified maximum demand (d)			3.345	2.801	3.345				
Test period			Wednesday	Friday	Wednesday				
Day			6:00 PM	8:30 PM	6:00 PM				
Half-hour ended			2.635	2.318	2.953				
Average weekday			6:00 PM	6:00 PM	6:00 PM				
Half-hour ended									
Noncoincident maximum demand									
Test period			9.326	7.701	8.888				
MAXIMUM TOTAL LOAD DEMAND PER CUSTOMER, kW									
Diversified maximum demand (d)			7.402	5.543	7.402	2.884	3.138	2.743	
Test period			Tuesday	Friday	Tuesday	Wednesday	Thursday	Monday	
Day			7:30 AM	8:30 PM	7:30 AM	11:30 AM	1:30 PM	5:00 PM	
Half-hour ended			5.523	4.488	6.629	2.395	2.560	1.553	
Average weekday			7:30 AM	8:00 AM	7:30 AM	5:00 PM	5:30 PM	6:00 PM	
Half-hour ended									
Noncoincident maximum demand									
Test period			13.298	10.716	12.972	6.914	6.956	6.451	

a) Obtained from installed test equipment and adjusted to calendar months.

b) Test periods contain only weekdays.

c) Base load is the calculated difference between total residence use and space heating/cooling use.

d) Individual customer method of metering; integrated clock half-hour demand; Eastern Standard Time.

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COPY #1

PHILADELPHIA ELECTRIC COMPANY

PHILADELPHIA

REPORT 48439-B

1978-79 RESIDENTIAL ELECTRIC HEATING SURVEY
OF CUSTOMERS HAVING HEAT PUMPS WITH
SUPPLEMENTARY FOSSIL FUEL HEATING

AVERAGE CUSTOMER CHARACTERISTICS

RESEARCH AND TESTING DIVISION

ENGINEERING AND RESEARCH DEPARTMENT

December 31, 1980

(Continued)
RESIDENTIAL ELECTRIC HEATING SURVEY - HEAT PUMP WITH FOSSIL SUPPLEMENTARY HEAT

CUSTOMER LOAD CHARACTERISTICS

	Annual (a)	Winter Tests Periods (b)			Cooling Period (a)	Summer Tests Periods (b)					
		Heating Period (a)	Combined Weeks	First Week		Second Week	Hot Weeks		Cool Weeks		
						First	Second	First	Second		
LOAD FACTOR, PERCENT											
Heating/cooling load based on diversified demand			78.9	76.3	80.9	62.8	65.9	26.0	34.2		
Maximum			91.6	90.5	90.9	57.8	61.4	59.6	64.5		
Average weekday maximum demand based on noncoincident maximum demand			54.2	54.6	57.2	31.6	34.4	11.6	12.3		
Heating load based on diversified demand											
Maximum			54.4	54.8	55.4	54.3	55.6	57.8	58.6		
Average weekday demand based on noncoincident maximum demand			63.9	63.9	62.4	68.9	65.6	82.7	73.9		
Maximum			20.1	22.9	22.1	19.2	21.2	24.4	20.6		
Cooling load based on diversified demand											
Maximum			75.5	79.6	76.6	54.7	55.0	54.5	57.3		
Average weekday maximum demand based on noncoincident maximum demand			86.3	87.6	85.0	67.3	66.4	65.1	77.4		
Maximum			42.6	45.6	45.7	30.2	34.5	21.8	22.9		
DIVERSITY FACTOR PERCENT											
Heating/cooling load based on diversified maximum demand			68.7	71.6	70.7	73.9	74.9	44.6	36.0		
Based on avg. weekday max. demand			59.1	60.4	62.9	56.8	55.9	19.4	19.1		
Heating load based on diversified demand			37.0	41.8	39.9	35.4	33.0	33.3	35.2		
Based on avg. weekday max. demand			31.5	35.8	35.4	27.9	32.3	29.4	27.9		
Cooling load based on diversified demand			56.5	57.3	59.6	55.2	61.6	40.0	35.9		
Based on avg. weekday max. demand			49.4	52.1	53.7	44.9	52.0	33.5	29.6		
DEGREE TEMPERATURE DATA (a)											
Days	508	500									
Total for the test period			315	162	153						
For average weekday			31.5	32.4	31.0						
Effective degree hours						850					
Total for the test period						855	616	14	65		
For average weekday						177.0	123.2	2.8	13.0		
PERIOD											
From	12-1-78	12-1-78	10-1-79	12-11-78	12-11-78	12-18-78	6-1-79	7-23-79	7-30-79	6-11-79	8-13-79
To	11-30-79	5-31-79	11-30-79	12-22-78	12-15-78	12-22-78	9-30-79	7-27-79	8-3-79	6-15-79	8-17-79
Number of customers tested			43	43	43		43	43	43	43	43

a) Degree days are based on 65° dry bulb temperature and effective cooling hours are based on 75° dry bulb and 65° wet bulb temperature.

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TABLE 1
1972-79 RESIDENTIAL ELECTRIC HEATING SURVEY - HEAT PUMP WITH POSSIBLE SUPPLEMENTARY HEAT
AVERAGE CUSTOMER LOAD CHARACTERISTICS

ENERGY USE PER CUSTOMER, kWh	Annual (a)	Heating Period (a)		Winter Tests Periods (b)		Cooling Period (a)	Summer Tests Periods (b)			
		First Week	Second Week	First Week	Second Week		First	Second		
Space heating/cooling load	9,816	6,100	597.0	290.8	306.2	1,746	138.2	179.3	28.5	24.8
Test period			59.7	58.2	61.2		27.6	35.9	5.7	5.0
Average weekday										
Base load (c)	8,991	5,453	299.4	151.0	148.5	3,039	118.1	122.5	107.9	127.5
Test period			29.9	30.2	29.7		23.6	24.5	21.6	25.5
Average weekday										
Total residence load	18,818	14,053	896.5	441.7	450.7	4,786	256.3	301.9	136.4	152.2
Test period			89.6	88.4	90.9		51.3	60.4	5.2	30.5
Average weekday										
MAXIMUM HEATING/COOLING LOAD DEMAND PER CUSTOMER, kW										
Diversified maximum demand (d)										
Test period										
Day										
Half-hour ended										
Average weekday			3.155	3.175	3.155		2.692	3.255	6.917	0.605
Test period			5:30 AM	6:00 AM	5:30 AM		4:30 PM	4:30 PM	6:30 PM	10:30 PM
Noncoincident maximum demand			2.716	2.677	2.806		1.994	2.435	0.399	0.321
Test period			5:00 AM	6:00 AM	4:00 AM		6:00 PM	4:00 PM	6:30 PM	5:30 PM
Day										
Half-hour ended										
Average weekday			4.594	4.434	4.463		3.612	4.346	2.056	1.631
Test period										
Day										
Half-hour ended										
Average weekday			2.295	2.295	2.235		1.812	1.835	1.556	1.816
Test period			6:00 PM	6:00 PM	6:30 PM		8:30 PM	8:30 PM	5:00 PM	6:30 PM
Noncoincident maximum demand			1.953	1.568	1.984		1.429	1.557	1.375	1.439
Test period			6:00 PM	6:00 PM	9:00 PM		8:30 PM	9:30 PM	5:00 PM	8:00 PM
Day										
Half-hour ended										
Average weekday			6.201	5.497	5.599		5.115	4.825	4.669	5.153
Test period										
Day										
Half-hour ended										
Average weekday			4.945	4.627	4.945		3.902	4.490	2.085	2.211
Test period			6:00 PM	6:00 PM	6:00 PM		4:30 PM	5:00 PM	5:00 PM	6:30 PM
Noncoincident maximum demand			4.330	4.205	4.456		3.172	3.791	1.746	1.638
Test period			6:00 PM	6:00 PM	9:30 PM		5:00 PM	5:00 PM	5:00 PM	5:30 PM
Day										
Half-hour ended										
Average weekday			8.759	8.075	8.295		7.068	7.254	5.218	5.538
Test period										

a) Obtained from installed test equipment and adjusted to calendar months.
 b) Test periods contain only weekdays.
 c) Base load is the calculated difference between total residence use and space heating/cooling use.
 d) Individual customer method of metering; integrated clock half-hour demand; Eastern Standard Time.

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ELECTRIC

1980-90 BUDGET FORECAST

With 1990-2000 Projections

Technical Services Department

February, 1981

PHILADELPHIA ELECTRIC COMPANY SYSTEM

BASE CASE

RESISTANCE AND HAI TURB ADDITORS - RATE KH

RESISTANCE AND HAI TURB ADDITORS - RATE KH

EST AVE SEASONAL C.O.P.
OF ADDS (H.P. TO FURN)

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

EST Z - NH
INST IN TURB

Year	TOTAL RESISTANCE		TOTAL COPPERSTORS		TOTAL HAI TURB		TOTAL ADDITORS		EST Z - NH INST IN TURB	EST AVE SEASONAL C.O.P. OF ADDS (H.P. TO FURN)
	RESIST	TOTAL	RESIST	TOTAL	RESIST	TOTAL	RESIST	TOTAL		
1970	1400	27	962	0	2442	27	2469	1.1	1.7	
1971	2357	95	773	0	3035	95	3130	3.0	1.7	
1972	1752	47	362	6	2114	53	2167	2.4	1.7	
1973	3052	350	647	11	4509	341	4850	7.0	1.7	
1974	5123	350	713	11	5036	361	5197	5.8	1.7	
1975	3325	530	474	5	3799	543	4342	12.5	1.7	
1976	2451	1274	410	10	2041	1292	4133	31.5	1.7	
1977	1612	2452	412	102	2624	2554	4578	55.0	1.0	
1978	1303	3058	510	262	1901	4120	6021	60.4	1.9	
1979	1930	6304	941	341	2671	6645	9516	69.8	1.9	
1980	1650	4900	0/0	700	2720	5760	8480	67.9	1.9	
1981	1970	5200	850	940	2050	6440	9290	69.3	1.9	
1982	2250	6110	940	1160	3160	7270	10430	69.7	2.0	
1983	2570	5270	1000	1400	3370	7670	11040	69.5	2.0	
1984	2570	5330	1060	1640	3630	8200	11910	69.5	2.1	
1985	2230	6790	1140	1860	3780	8650	12430	69.5	2.1	
1986	2530	6710	1190	2110	3750	8020	12570	70.2	2.2	
1987	2230	6700	1220	2300	3050	9160	13010	70.4	2.2	
1988	2530	6720	1250	2550	3700	9270	13050	71.0	2.3	
1989	2400	6560	1200	2720	3760	9200	13040	71.2	2.3	
1990	2510	6750	1300	2900	3010	9620	13430	71.6	2.4	

* INCLUDING 300 500 TO INDIVIDUALLY RETIRED UNITS

TABLE R-XXIV

TECHNICAL SERVICES
SEPTEMBER 1980

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SUMMARY OF RESIDENTIAL MARKET FIGURES

APARTMENTS

	TOTAL SQUARE FEET (K.S.F.)	HOUSES (K.S.F.)	INDIVIDUALLY METERED (K.S.F.)	SHARED METERED (K.S.F.)	TOTAL (K.S.F.)
DECEMBER 31, 1979	1,315,000	985,500	200,000	1,207,000	1,186,500
NEW CONSTRUCTION 1980 TO PRESENTIVE	158,500	107,000	45,000	35,000	152,000
DEMO FIGURES AND RECONSTRUCTION	17,400	5,000	2,600	7,000	9,600
DECEMBER 31, 1979	1,456,500	1,088,000	243,200	1,245,000	1,337,000
NET CHANGE 1979 TO 11 YEAR	141,100	102,500	43,200	45,000	145,400
PERCENTAGE	74500	37500	15100	21200	53400
DECEMBER 31, 1979	5.7%	3.0%	0.1%	15.4%	4.5%
NEW CONSTRUCTION 1980 TO PRESENTIVE	99100	54100	32000	3000	96100
PERCENTAGE	65.5%	50.0%	69.6%	05.7%	62.0%
DECEMBER 31, 1979	32600	27000	5600	0	32600
NET CHANGE 1979 TO 11 YEAR	205300	129400	51700	24200	182100
PERCENTAGE	14.2%	11.0%	22.1%	19.4%	13.7%

TECHNICAL SERVICES
DECEMBER 1980

NOTE: FIGURE IS EXCLUDED FROM ALL FIGURES ON THIS PAGE.

TABLE R-XXXIII

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SUBMITTAL DATA

JOB NAME

ARCHITECT

ENGINEER

LOCATION

SUBMITTED BY

APPROVED BY

PERFORMANCE AT SPECIFIED CONDITIONS ^①

MODEL (HEAT PUMP) _____
(Insert Complete Model Number)

VOLTS _____ PH. _____ Hz. _____

MATCHED AIR HANDLER _____
(Insert Complete Model Number)

VOLTS _____ PH. _____ Hz. _____

COOLING CAPACITY, Total _____ BTUH

Sensible _____ BTUH

ENTERING AIR (Indoor Evaporator) _____ °F. Dry Bulb

_____ °F. Wet Bulb

LEAVING AIR (Indoor Evaporator) _____ °F. Dry Bulb

_____ °F. Wet Bulb

LOW AMBIENT COOLING _____ °F. _____

AIR FLOW _____ CFM@ _____ Inches w.g.

ENTERING AIR (Outdoor Condenser) _____ °F. Dry Bulb

_____ °F. Wet Bulb

HEATING CAPACITY, Total _____ BTUH
(Supplementary Heat Not Included)

ENTERING AIR (Indoor Unit) _____ °F. Dry Bulb

ENTERING AIR (Outdoor Unit) _____ °F. Dry Bulb

SUPPLEMENTARY HEAT CAPACITY _____ BTUH

_____ KW

^①Installation to be in accordance with Manufacturer's recommendations.

CERTIFICATION

Dimensions, Specification, and Performance as indicated on this sheet certified correct.

(Company Name)

(Location)

By _____ Date _____

CENTRAL AIR CONDITIONING DEPARTMENT,
TYLER, TEXAS 75711

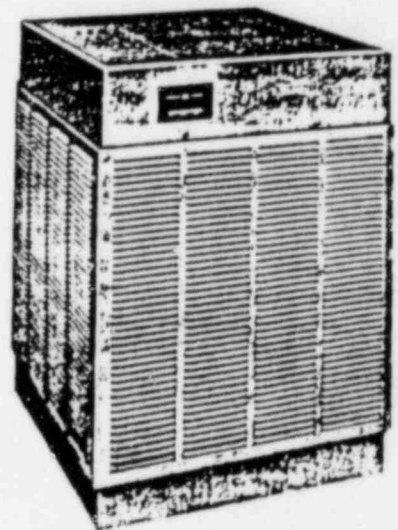
GENERAL  ELECTRIC



PRODUCT
DATA

SPLIT SYSTEM
WEATHERTRON[®]
HEAT PUMPS

28,000 — 36,800 BTUH
NOMINAL CAPACITY AT RATING CONDITIONS



AMBASSADOR MODELS
BWB730, BWB736A-A OUTDOOR UNITS

All equipment described herein is eligible for coverage under the General Electric Central Air Conditioning Service Agreement Program. Contact your local General Electric representative for additional information.

GENERAL ELECTRIC PRODUCT DATA

CENTRAL AIR CONDITIONING DEPARTMENT, TROUP HIGHWAY, TYLER, TEXAS 75711

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PRODUCT SPECIFICATIONS

OUTDOOR UNITS

OUTDOOR UNIT	BWB730A100A	
POWER CONNS. — V/Ph/Hz	230/1/60	
Min. Brch. Cir. Ampacity ③	23	
Fuse Size — Max. (Amps)	35	
Fuse Size — Recmd. (Amps)	35	
Sound Rating No. ②	19	
COMPRESSOR	CLIMATUFF™	
No. Used — No. Speeds	1 — 1	
Volts/Ph/Hz	230/1/60	
R.L. Amps — L.R. Amps	15 — 74	
Brch. Cir. Selec. Cur. Amps	17	
OUTDOOR FAN — Type	PROPELLER	
Dia. (in.) — No. Used	18 — 1	
Type Drive — No. Speeds	DIRECT — 1	
CFM @ 0.0 in. w.g. ④	2800	
No Motors — HP	1 — 1/5	
Motor Speed R.P.M.	1155	
Volts/Ph/Hz	230/1/60	
F. L. Amps	1.2	
OUTDOOR COIL — Type	SPINE FIN™	
Rows — F.P.I.	1 — 20	
Face Area (sq. ft.)	12.7	
Tube Size (in.)	3/8	
Refrigerant Control	EXPANSION VALVE	
REFRIGERANT		
Lbs. — R-22 (O.D. Unit) ⑤	6	
Factory Supplied	YES	
Line Size — in. O.D. Gas ⑥	3/4	
Line Size — in. O.D. Liq. ⑥	5/16	
DIMENSIONS		
Outdoor Unit — Crated (in.)	33 X 25 X 25	
Uncrated	SEE OUTLINE DWG.	
WEIGHT		
Shipping (lbs.)	181	
Net (lbs.)	171	

- ① Rated in accordance with A.R.I. Standard 240.
- ② Rated in accordance with A.R.I. Standard 270.



SPLIT SYSTEM

- ③ Calculated in accordance with currently prevailing National Electric Code.
- ④ Standard Air — Dry Coil — Outdoor.
- ⑤ This value approximate. For more precise value see unit nameplate and service instruction.
- ⑥ Max. linear length 80 ft.; Max. lift - Suction 60 ft.; Max. lift - Liquid 60 ft. Max. length of precharged tubing 40 ft. For greater length refer to Refrigerant Piping Manual Pub. No. 22-3040.
- ⑦ Rated in accordance with U.S. Government standard tests. HSPF is the minimum design requirement for Region IV.



OUTDOOR UNIT WITH AIR HANDLERS

	BWH030A	BWH036A	BWH042A	BWH730A	BWH736A	BWH736S	BWU030A	BWV030A
RATINGS (Cooling) ①								
BTUH	29800	31000	31600	29800	31000	32600	28200	29600
Indoor Airflow (CFM)	1000	1125	1125	1000	1125	1125	1000	1000
System Power (KW)	4.12	4.26	4.29	4.12	4.26	4.24	4.06	4.14
S.E.E.R. (Btu/watt-hr.) ②	8.15	7.90	8.20	7.60	7.90	8.50	7.35	8.05
RATINGS (Heating) ①								
(High Temp.) BTUH	30000	30600	30600	30000	30600	30600	29600	30200
System Power (KW)	3.36	3.34	3.31	3.36	3.34	3.15	3.41	3.38
COP	2.60	2.70	2.70	2.60	2.70	2.85	2.55	2.60
HSPF (Btu/watt-hr.) ③	6.00	6.05	6.10	5.95	6.05	6.30	5.80	6.00

	BWV034F	BWV036A	BWV042A	BWV730A	BWV736A	BWV736S	
RATINGS (Cooling) ①							
BTUH	31800	31000	31800	29600	31000	32600	
Indoor Airflow (CFM)	1125	1125	1125	1000	1125	1125	
System Power (KW)	4.34	4.26	4.28	4.12	4.26	4.24	
S.E.E.R. (Btu/watt-hr.) ②	7.90	7.90	8.25	7.60	7.90	8.50	
RATINGS (Heating) ①							
(High Temp.) BTUH	30800	30600	30600	30200	30600	30600	
System Power (KW)	3.31	3.34	3.30	3.37	3.34	3.15	
COP	2.75	2.70	2.70	2.60	2.70	2.85	
HSPF (Btu/watt-hr.) ③	6.10	6.05	6.10	5.90	6.05	6.30	

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SUBMITTAL DATA

JOB NAME

ARCHITECT

ENGINEER

LOCATION

SUBMITTED BY

APPROVED BY

PERFORMANCE AT SPECIFIED CONDITIONS ①

MODEL (HEAT PUMP) _____
(Insert Complete Model Number)

VOLTS _____ PH. _____ Hz. _____

MATCHED AIR HANDLER _____
(Insert Complete Model Number)

VOLTS _____ PH. _____ Hz. _____

COOLING CAPACITY, Total _____ BTUH

Sensible _____ BTUH

ENTERING AIR (Indoor Evaporator) _____ °F. Dry Bulb

_____ °F. Wet Bulb

LEAVING AIR (Indoor Evaporator) _____ °F. Dry Bulb

_____ °F. Wet Bulb

LOW AMBIENT COOLING _____ °F. _____

AIR FLOW _____ CFM@ _____ Inches w.g.

ENTERING AIR (Outdoor Condenser) _____ °F. Dry Bulb

_____ °F. Wet Bulb

HEATING CAPACITY, Total _____ BTUH
(Supplementary Heat Not Included)

ENTERING AIR (Indoor Unit) _____ °F. Dry Bulb

ENTERING AIR (Outdoor Unit) _____ °F. Dry Bulb

SUPPLEMENTARY HEAT CAPACITY _____ BTUH

_____ KW

① Installation to be in accordance with Manufacturer's recommendations.

CERTIFICATION

Dimensions, Specification, and Performance as indicated on this sheet certified correct.

(Company Name)

(Location)

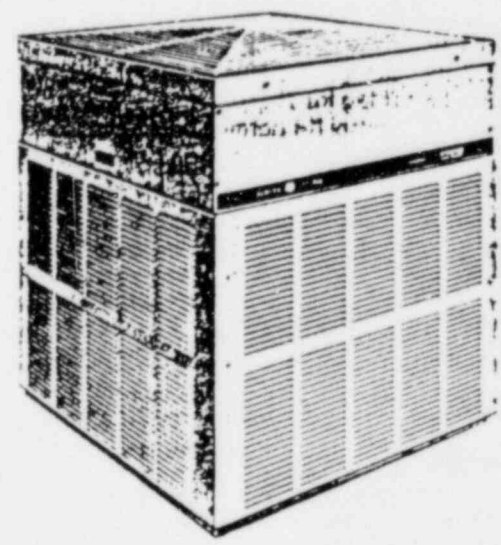
By _____ Date _____



PRODUCT DATA

SPLIT SYSTEM WEATHERTRON® HEAT PUMPS

31,000 thru 39,500 BTUH RATED CAPACITY



EXECUTIVE MODELS BWR730,736A OUTDOOR UNITS

CENTRAL AIR CONDITIONING DEPARTMENT, TYLER, TEXAS 75711



All equipment described herein is eligible for coverage under the General Electric Central Air Conditioning Service Agreement Program. Contact your local General Electric representative for additional information.

GENERAL ELECTRIC PRODUCT DATA

CENTRAL AIR CONDITIONING DEPARTMENT, TROUP HIGHWAY, TYLER, TEXAS 75711

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PRODUCT SPECIFICATIONS

OUTDOOR UNITS

OUTDOOR UNIT	BWR730A100A
POWER CONNS. — V/Ph/Hz	230/1/60
Min. Brch. Cir. Ampacity ③	22
Fuse Size — Max. (Amps)	30
Fuse Size — Recmd. (Amps)	30
Sound Rating No. ②	19
COMPRESSOR	CLIMATUFF™
No. Used — No. Speeds	1 — 1
Volts/Ph/Hz	230/1/60
R.L. Amps — L.R. Amps	14.8 — 72
Brch. Cir. Selec. Cur. Amps	16.1
OUTDOOR FAN — Type	PROPELLER
Dia. (in.) — No. Used	22 — 1
Type Drive — No. Speeds	DIRECT — 1
CFM @ 0.0 in. w.g. ④	3100
No Motors — HP	1 — 3/16
Motor Speed R.P.M.	825
Volts/Ph/Hz	230/1/60
F. L. Amps — L. R. Amps	1.0 — 2.0
OUTDOOR COIL — Type	SPINE FIN™
Rows — F.P.I.	1 — 20
Face Area (sq. ft.)	16.1
Tube Size (in.)	1/2
Refrigerant Control	EXPANSION VALVE
REFRIGERANT	
Lbs. — R-22 (O.D. Unit) ⑤	11
Factory Supplied	YES
Line Size — in. O.D. Gas ⑥	3/4
Line Size — in. O.D. Liq. ⑥	5/16
DIMENSIONS	
Outdoor Unit — Crated (in.)	37.25 X 34.5 X 33.5
Uncrated	SEE OUTLINE DWG.
WEIGHT	
Shipping (lbs.)	297
Net (lbs.)	283

- ① Rated in accordance with A.R.I. Standard 243.
- ② Rated in accordance with A.R.I. Standard 270.



SPLIT SYSTEM

- ③ Calculated in accordance with currently prevailing National Electric Code.
- ④ Standard Air — Dry Coil — Outdoor
- ⑤ This value approximate. For more precise value see unit nameplate and service instructions.
- ⑥ Max. linear length 80 ft.; Max. lift - Suction Pst II, Max. lift - Liquid 60 ft. Max. length of precharged tubing 40 ft. For greater length refer to Refrigerant Piping Manual Pub. No. 22-3043.
- ⑦ Rated in accordance with U.S. Government standard tests. HSPF is the minimum design requirement for Region IV.



OUTDOOR UNIT WITH AIR HANDLERS

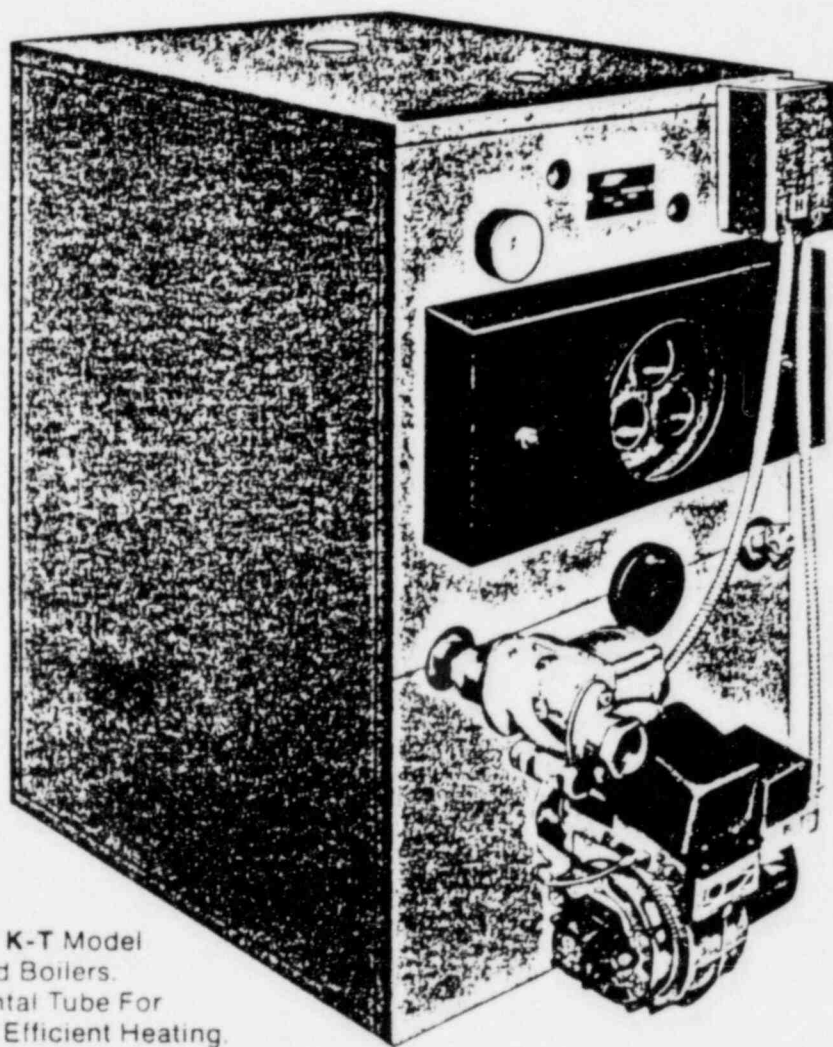
	BWH030A	BWH036A	BWH042A	BWH730A	BWH736A	BWH736S	BWV030A	BWV034F
RATINGS (Cooling) ①								
BTUH	31600	33000	34000	31600	33000	35200	31400	34200
Indoor Airflow (CFM)	1000	1125	1125	1000	1125	1125	1000	1125
System Power (KW)	4.00	4.13	4.17	4.00	4.13	4.11	4.02	4.21
SEER (Btu/watt-hr.) ②	8.55	8.40	8.75	8.05	8.40	9.15	8.45	8.50
RATINGS (Heating) ①								
(High Temp.) BTUH	32600	33400	33600	32600	33400	33800	32600	33800
System Power (KW)	3.54	3.52	3.50	3.54	3.52	3.34	3.56	3.50
COP	2.70	2.80	2.80	2.70	2.80	3.00	2.70	2.85
HSPF (Btu/watt-hr.) ③	6.10	6.20	6.25	6.05	6.20	6.50	6.10	6.25

	BWV036A	BWV042A	BWV730A	BWV736A	BWV736S
RATINGS (Cooling) ①					
BTUH	33000	34200	31400	33000	35000
Indoor Airflow (CFM)	1125	1125	1000	1125	1125
System Power (KW)	4.13	4.16	4.01	4.13	4.11
SEER (Btu/watt-hr.) ②	8.40	8.80	8.00	8.40	9.10
RATINGS (Heating) ①					
(High Temp.) BTUH	33400	33600	32600	33400	33800
System Power (KW)	3.52	3.49	3.55	3.52	3.34
COP	2.80	2.85	2.70	2.80	2.95
HSPF (Btu/watt-hr.) ③	6.20	6.30	6.05	6.20	6.50

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E·F·M ★ **New MinimOil Series** HOT WATER

Great American Fuel Saver!



PK-T & K-T Model
Oil-fired Boilers.
Horizontal Tube For
Energy Efficient Heating



THE MARK OF QUALITY

ELECTRIC FURNACE MAN
EMMAUS, PENNSYLVANIA

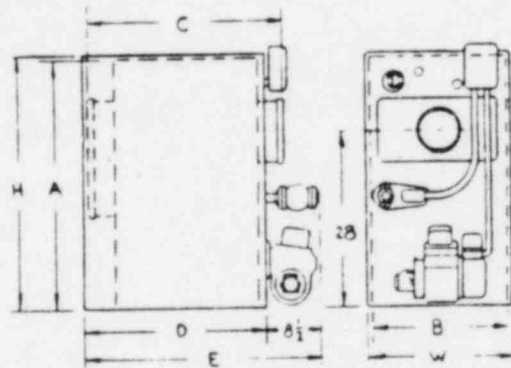
Electric Furnace Man, Emmaus, PA

DIVISION OF GENERAL MACHINE CORPORATION—BOILER BURNER UNITS—FURNACE BURNER UNITS—CONVERSION BURNERS—ELECTRIC HEATING UNITS

SPECIFICATIONS

MODEL	PK500T	PK750T	K950T	K1200T
INPUT BTUH	138000	186000	242000	304000
HEATING CAPACITY BTUH	119000	161000	210000	252000
*NET OUTPUT BTUH	103500	140000	182600	219130
BURNER	AF56XN	AF56YB	AF56XO	AF56XP
NOZZLE SIZE—G.P.H.	1.00	1.35	1.75	2.20
TANKLESS COIL G.P.M.	5	5	7	7
SUPPLY CONNECTION	2	2	2	2
RETURN CONNECTION	(1) 1 1/4"	(1) 1 1/4"	(2) 1 1/2"	(2) 1 1/2"
SMOKE OUTLET—DIA.	7	7	8	8
WATER CAPACITY—GALS.	25	24	37	36
RECOMMENDED CHIMNEY SIZE	8×8×15	8×8×15	8×8×15	8×8×20
SHIPPING WEIGHT	670	725	855	885

*Net output ratings are based on installed radiation of sufficient quantity to serve the requirements of the building and nothing need be added for normal piping and pickup. Net rating is based on a piping and pickup allowance of 13%.



DIMENSIONS

MODEL	PK500T	PK750T	K950T	K1200T
H—HEIGHT	40 1/4	40 1/4	40 1/4	40 1/4
W—WIDTH	23 1/4	23 1/4	23 1/4	23 1/4
D—DEPTH	29	29	41	41
E—EXTENSION	37 1/4	37 1/4	49 1/4	49 1/4
BARE BOILER				
A—HEIGHT	39 1/4	39 1/4	39 1/4	39 1/4
B—WIDTH	23	23	23	23
C—DEPTH	29	29	41	41

"PK" Models—Packaged boiler burner units completely wired ready for final installation with flush jacket, domestic hot water coil, circulator, relief valve, thermostat, drain cock, draft regulator, M.H. thermostat and M.H. combination aquastat.

"K" Models—Not factory assembled or wired, boiler, burner, flush jacket, domestic hot water coil, relief valve, thermostat, M.H. thermostat and M.H. combination aquastat.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

AUTHORIZED DEALER



THE MARK OF QUALITY

P-1. Pamphlet entitled, "You can control the comfort of your home and save energy..."

by the Electrical Association of Philadelphia 2877-2 :381

P-2. Pamphlet entitled "This home conserves energy with a heat pump" by the
Electrical Association of Philadelphia. 2877-1:331.

P-3. Pamphlet entitled Customer Guidelines "RESIDENTIAL ELECTRIC HEAT PUMP"
by the Philadelphia Electric Company

P-4 Pamphlet entitled, "ENERGY CONSERVATION HINTS" with the name and address
of the Philadelphia Electric Co on the back cover.

1 MR. MOODY: Thank you, Mr. Lewis.

2 J. William Inslee.

3 PRESENTATION OF J. WILLIAM INSLEE

4 MR. INSLEE: I am J. William Inslee of
5 Downingtown, Pennsylvania. I am a Chester County
6 resident.

7 As everybody should, I do thank you for your
8 attention, and more than your attention which I hope
9 will be given to this whole affair.

10 I have to agree with many other people that
11 the notice for this meeting was far too short. As a
12 Chester County resident maybe I have missed it, but I am
13 unaware of Chester County advertising. I hope I missed
14 it and I hope that if there should be, and I would call
15 for a future public hearing on environmental concerns by
16 the public, that there would be much broader
17 advertisement and much better notice of time. I heard
18 from a friend. I did not see anything in any public
19 source.

20 I think another point that is being made
21 repeatedly is that the breadth of the study is the
22 critical affair here in my eyes. I think that there are
23 many aspects of this plant proposition that strike me as
24 absurd. However, they exist as a reality that we are
25 dealing with, and there are many absurdities in the

1 world.

2 The biggest one, it strikes me, may be the
3 question of bringing water from a river that is
4 understressed at the moment and is clearly going to be a
5 major water source for residential, to say nothing of
6 other industrial uses, but principally as a fall-back
7 support for what is a major residential use in the
8 future in the whole East Coast area as we know it
9 immediately here.

10 The current subsidy of Philadelphia Electric's
11 entering into the Point Pleasant project will be
12 propagating a further use of water, a pumped in,
13 centralized water system that I think we are seeing fail
14 in many urban settings now. I would call into question
15 the very logic of this relationship of residential water
16 use in conjunction with the PE use, to say nothing of
17 the consumptive use that is going to be maybe the whole
18 bane of PE's participation.

19 But down the road, if we have the Limerick
20 Nuclear Power Plant, we will look to its
21 decommissioning. At that point I would suggest that any
22 municipality that engages in water use in partnership
23 with PE should consider its future capital cost to be
24 incurred with no subsidy and later reliance built on a
25 project that currently has no basis.

1 Now to come to my thanks and my communication
2 of my trust in you and your work. I can do no other,
3 and I think it is critical that we can trust you. I
4 think there is considerable expertise present and I hope
5 it can be as fully utilized as is necessary.

6 This plant will of necessity involve some
7 environmental impact of just what it means to run a
8 nuclear power plant and there is going to be some
9 periodic emission of radiation. There will be waste.
10 There is a uranium cycle.

11 What does this mean to us now under current
12 knowledge of the situation? How thoroughly can we be
13 assured that if it operates it is operating well and
14 maybe in the broader question, shouldn't the
15 alternatives have been more thoroughly considered and
16 shouldn't they now be reconsidered and shouldn't a plant
17 that would not be sited here today be heavily examined
18 in regard to simple operating questions? Shouldn't we
19 consider deeply what it means in worse cases and in an
20 incredible variety of worse cases?

21 Personally it has come back to me in a funny
22 way, having broken my ankle about six weeks ago, just
23 what it might mean to be a handicapped person in a funny
24 situation with a plant that wasn't expected and where I
25 might not have been on any fire company's list of

1 handicapped people and where I can't drive. It just
2 needs a lot of thought and I hope you give it very deep
3 consideration.

4 Thank you.

5 (Applause.)

6 MR. MOODY: Thank you, Mr. Inslee.

7 Ann Newbold. Would you give you name and
8 address, please.

9 PRESENTATION OF ANN NEWBOLD

10 MS. NEWBOLD: My name is Ann Newbold, and I
11 live at R.D. 1 in Bechtelsville.

12 My concern dates back from the time of one of
13 the early demonstrations against this nuclear plant when
14 there were so many people at the demonstration that it
15 took us hours and hours to get away from it. The roads
16 were jammed and I thought, my God, what would it be like
17 if there were a nuclear accident and the whole of
18 Pennsylvania was running away. I don't know what the
19 evacuation plans are now, but I certainly hope that have
20 improved since that date. I am sure that whatever they
21 are, that they will not be anywhere near adequate to
22 handle the problems that will arise if there were a
23 serious nuclear accident.

24 However, I am here not to talk about that. I
25 am a botonist, a plant taxonimist and I am currently

1 employed as a consultant by the University of
2 Pennsylvania. We are working on the plants of special
3 concern. The University has a contract with the
4 Department of Environmental Resources to determine what
5 are our rare and endangered species of plants in
6 Pennsylvania.

7 Now I don't want to indicate for a moment that
8 I think plants are more important than people, although
9 I am talking about plants, but the effects of radiation
10 as shown on plants are indicative of what they may be
11 doing to human beings. So there is quite a concern with
12 plants and the effects on plants.

13 We are developing now this list of the rare
14 and endangered. Pennsylvania is behind most of the
15 states in having their own list. I know that the
16 environmental impact statement when it was made up
17 before could not have concerned itself with those
18 particular plants that were on the list. The list is at
19 the moment, we are studying all the aspects of it and
20 putting the information into the computers so that it
21 will be there.

22 I would hope that when this information is
23 gathered by our committee on plants of special concern
24 that it will become a part of the concern of the
25 Limerick Power Plant.

1 The second thing I want to say in this regard
2 is last summer I was employed as a consultant by the
3 Academy of Natural Sciences and we were working on the
4 plots of plants in the area of the Burack EPL nuclear
5 plant. We were studying plots close to the plant and
6 studying plots which were considerably northwest of the
7 plant. We were doing research to find out what the
8 condition of the plants and trees and shrubs were, what
9 they were and then this information was to be used as
10 comparative groups of plots near the plant and plots far
11 away from the plant. So that each year the effects of
12 the radiation on the vegetation would be compared in the
13 two places.

14 Now I think this project came through Ruth
15 Passick who was the President of the Academy of Natural
16 Sciences and she is also on the Board of the PP&L. I
17 don't think that this is a requirement on every nuclear
18 power plant, but I think it is one which is well
19 worthwhile and one which I would like to see considered
20 in regard to this particular plant so we could have some
21 continuing studies on the radiation, not because I want
22 a job next summer, but because we were considering the
23 matter of radiation and it is deadly serious.

24 Thank you very much.

25 (Applause.)

1 MR. MOODY: Thank you, Ms. Newbold.

2 We have now had ten speakers. We are a little
3 bit under the five-minute average that we hoped to hit.
4 There are 34 people on the list now, however. So we
5 have some more coming.

6 William Miller, Jr.

7 PRESENTATION OF WILLIAM M. MILLER, JR.

8 MR. MILLER: Thank you, and I will be brief.

9 My name is William Miller and I live at 59
10 Kugler Road, in Limerick.

11 Mr. Chairman, I sat through this morning's
12 question and answer period and there are two issues I
13 would like to raise that were not covered.

14 As a Limerick tax collector and as a member of
15 the Limerick Planning Commission I am addressing what
16 are grass-roots problems for Limerick. I am close to
17 the people and their problems and I have listened to
18 what is happening down there.

19 The present work force at the plant approaches
20 3,000 more or less. A work force that large uses a
21 tremendous amount of water. This combined with the
22 construction for making use for making cement and other
23 uses at the plant has caused the consumption of huge
24 amounts of water being removed from on site deep wells.

25 I have heard concerns expressed by people who

1 live in the general vicinity of the plant that their
2 wells were getting low So my question is what can these
3 people do if they lose their water?

4 Now another fact that could be concluded from
5 today's questions and answers was that the nuclear power
6 plants are really anti-people. People cause studies and
7 surveys. People need protection from accidents.
8 People need warning of accidents. People need
9 evacuation after accidents. If you remove the people
10 you solve all of PE's problems.

11 (Laughter.)

12 (Applause.)

13 MR. MILLER: With that premise in mind, I
14 would like to call to your attention Limerick Township's
15 request for sewers. Three times we were able to satisfy
16 the federal EPA requirements for information in meeting
17 minimums. All these times our demise was with PDR, the
18 Pennsylvania Department. The Department of
19 Environmental Resources were always able to come up with
20 a road block. No sewers means no people around Limerick.

21 My question is obvious. Has PE Company served
22 their own purpose by delaying Limerick's growth? If
23 they have not, perhaps they will show their good faith
24 by underwriting our sewers.

25 (Laughter.)

1 (Applause.)

2 MR. MILLER: When I look at those giant
3 towers, I see a utility with its giant foot on the neck
4 of the whole area, and let me tell you when a giant has
5 his foot on your neck there is no growth.

6 Thank you, but no thank you.

7 (Laughter.)

8 (Applause.)

9 MR. MOODY: Thank you, Mr. Miller.
10 John Salamone, Mayor of Royersford.

11 PRESENTATION OF MAYOR OF ROYERSFORD JOHN SALAMONE

12 MAYOR SALAMONE: Thank you very much.

13 The texture of my testimony this evening I
14 think I would describe as one of disillusion and total
15 confusion.

16 Myself and our constituents in Royersford
17 certainly are not experts in the area of nuclear power,
18 we are not experts in the area of utility law and as
19 time goes on we become even more confused and we have
20 more resounding questions without answers.

21 In 1979 a number of antinuclear groups did
22 come to our Council Chambers and they endeavored to
23 present us with a petition that was circulating I think
24 across the nation at that particular time dealing with
25 the moratorium on nuclear power.

1 We chose at that time not to endorse that
2 resolution, and quite honestly we did it for two reasons.

3 One, we viewed ourselves not just as members
4 of the local area, but also as citizens of the United
5 States and we felt that we were somewhat concerned about
6 energy independence in the United States.

7 Secondly, we were somewhat advised to the fact
8 that Royersford, whether it be the Mayor or the Borough
9 Council, in the final analysis would have very little to
10 do with the actual decision-making process. We decided
11 in lieu of Three Mile Island and some of the panic in
12 questions that seemed to come to the forefront during
13 that confusing period of time that it would be more
14 appropriate in our roles in our community to wait and
15 see what happens with the industry, what happens with
16 the utility and what happened with those people who were
17 genuinely charged with the authority to make the
18 decisions and thereby not mislead our constituents and
19 pretend that politically we could do things that in
20 actuality we could not.

21 I must admit that since 1979 we have become a
22 little bit more disillusioned and the questions seem to
23 loom even larger. We were enhanced I think not too long
24 ago when the NRC appeared to us to take a more adamant
25 role in terms of regulation. We were somewhat confused

1 again when the utility company responded that in lieu of
2 this public safety posture by the NRC that would also
3 affect our utility rates. As everyone knows, the
4 utility rates are of course at the very bottom of a very
5 economically depressed region which you happen to be
6 visiting this evening.

7 So we were somewhat confused because we were
8 enthusiastic about the government intervention in terms
9 of experts, in terms of proper authority and in terms of
10 having some of these questions answered. Then to have
11 to pay for that, we did feel what I think someone does
12 in a hostage situation. We were concerned about the
13 energy needs of our nation. We were concerned about our
14 government providing regulation and expertise that we
15 did not possess. When those things seemed to come to
16 pass, we seemed to have to sacrifice public safety and
17 additional economic hardship with questions that are not
18 yet answered.

19 I am a firm believer in doing a great deal of
20 planning and homework. We still have the questions.
21 What kind of evaluation plan is available for this
22 area? Is the water problem really resolved? What
23 happens with nuclear waste disposal? What is the
24 authority? What is the final resolution of
25 transportation of hazardous materials through the

1 streets of our communities and the highways in these
2 areas.

3 I have to be honest with you and say that if
4 these questions were answered, we would feel a great
5 deal safer. We do not believe that these questions are
6 answered. We don't purport, and I don't think there is
7 anyone in this room that purports to have all of the
8 answers to these questions.

9 But gentlemen and ladies, you must please
10 provide us with those answers. We cannot do it. You
11 are our final line of defense and I don't think we have
12 any problems with that. But, please, if the answer to
13 the Limerick Nuclear Plant is no, have the courage to
14 say so because our lives depend upon it.

15 (Applause.)

16 MR. MOODY: Thank you, John.

17 Dennis Paul Elko. Would you please give your
18 name and address.

19 PRESENTATION OF DENNIS PAUL ELKO

20 MR. ELKO: My name is Dennis Paul Elko. That
21 is E-l-k-o. My address is 801 Gay Street in
22 Phoenixville.

23 Now I am angry. Let me say flat out I am
24 angry. I am angry for several reasons. First of all,
25 the short notice. I am angry at myself because I didn't

1 get involved in this thing sooner and register my
2 protest about this thing going on. So I am angry about
3 that.

4 I am angry with the NRC because I, like the
5 Mayor, who was marvelously eloquent and very charitable,
6 I expect nothing from the NRC. I was angry because I
7 didn't have a chance to get to my statistics in my files
8 which of course differ from those of the NRC, but then
9 again I think NRC already has those statistics and we
10 all know about government lying with their statistics.
11 You know what I mean? I am going to be honest about
12 that.

13 You know, if I were a bookie I wouldn't give
14 bets on if that plant is going to have a failure, only
15 when.

16 (Applause.)

17 MR. ELKO: Water cooled reactors are not
18 terribly reliable. We know that because the cooling
19 tubes rot out. We know that the gas cooled reactors are
20 more reliable but they are more expensive. We know it
21 is going to go.

22 Forget evacuation. If you have ever tried to
23 drive down 724 in Phoenixville, Royersford and
24 Coatesville during rush hour at 5 o'clock, forget it.
25 You are not getting out. You are stuck here. Okay.

1 I am concerned because I live in Phoenixville
2 and Phoenixville draws its water from the Schuylkill
3 River. There will be a leak in that dam. There will
4 be. It is just a matter of time.

5 Now in TMI after they have a leak they
6 announce four days later, well, we had a leak, but don't
7 worry about it. No radiation was let out. Don't worry
8 about it. It won't hurt you, you know. By then it has
9 gone downstream and our water intake has picked it up.

10 I have a great affection for this area. I
11 went to high school in Pottstown. I live in
12 Phoenixville and I am the Acting City Manager of
13 Coatesville. Now I am concerned not only from a
14 personal standpoint, but from a professional standpoint,
15 and I would like to make the disclaimer that my
16 viewpoints are my own and not necessarily reflecting
17 those of the City Council.

18 (Laughter.)

19 MR. ELKO: But let's look at it from a
20 non-emotional standpoint and look at business for a
21 moment. Let's talk about Lukens Steel which is a major
22 employer in Coatesville. Lukens is a very good
23 company. It is a low-profile company and they are not
24 going to make a statement on nuclear power. What they
25 are doing is petitioning to get off the PE grid to go to

1 Pennsylvania Power and Light where the rates are much
2 cheaper because they are looking at Economic Survival.

3 Now this is going to happen with other
4 companies. Now as this happens it is going to fall back
5 on the consumers to pay for something we don't like, we
6 don't need and we don't want. You are putting an
7 enormous amount of people in jeopardy. It is
8 ridiculous.

9 Like I say, I am just a little angry tonight
10 and I was scribbling notes back there and I don't want
11 to forget anything while I have a chance to say
12 something. We know that nuclear energy is not cheap and
13 it is not safe as it was billed to be year ago. It is
14 no good. It doesn't work. It doesn't work well, if it
15 works at all.

16 I mean I am not going to go into all the
17 stories about the employees that flush a toilet and the
18 water pressure drops and it kicks a valve and the whole
19 reactor shuts down. But you guys know about those, or
20 when they are testing for leaks in a pipe with a candle
21 and set fire to all the controls, or when they spilled
22 Pepsi into the control panels and things short out and
23 give lousy readings. I am not going to talk about that.

24 (Laughter.)

25 MR. ELKO: Now from a personal level let me

1 swing back again because I have got the mike here and I
2 want to take advantage of it. I am hoping that LEA does
3 some statistics on birthrates around here right now. I
4 am concerned about stillborn and birth defects in this
5 area. I would like a survey done now by somebody
6 reputable, and not the NRC, but a concern like the LEA,
7 somebody to do that.

8 Then after Unit 1 comes on line, because I
9 know it is going to come on line sometime, and of course
10 if it doesn't come on line I am buying drinks for
11 everybody, but I am pretty sure it is going to come on
12 line and there will be a change because things like that
13 happen. If you look at TMI, you know, you figure maybe
14 the women were hysterical and they miscarried or
15 something, you know, or maybe they are watching the news
16 and they got upset, you know, but these sheep and the
17 animals up there don't watch the news. Everybody knows
18 they just watch the soaps.

19 (Laughter.)

20 MR. ELKO: So, I mean, you can't argue with
21 those kinds of statistics.

22 I think really two closing comments and two
23 thoughts. I don't think the NRC is interested too much
24 in the facts and statistics they are going to get out of
25 these meetings because the NRC has very good people.

1 The government has very good technicians, you know. I
2 mean despite the fact that if you take any group of
3 laboratories that make an analysis, and I know this from
4 my experience, whether it be chemical waste or
5 radioactive waste, you don't get a broad level of
6 readings. You get readings that go up like this simply
7 because if you have got a hundred different laboratories
8 to do a hundred different tests you get a hundred
9 different readings, none of which would be the same. It
10 is like the story about if you took all the economists in
11 the world and laid them end to end, they couldn't reach
12 a conclusion. It just doesn't work.

13 (Laughter.)

14 MR. ELKO: What I think the NRC is here for
15 really is to see what kind of reaction you are going to
16 get when something goes wrong, down the pipe. As I say,
17 most people don't react until they are faced with an
18 accident, with a problem, like the FAA doesn't react
19 until there is a plane crash and they say we will look
20 into it. I would like to stop something before it
21 happens.

22 Since I don't think people are going to react
23 until something does happen, because a lot of people
24 aren't activists, and when something does happen there
25 is not going to be a room large enough anywhere in the

1 vicinity to hold all these people, you see.

2 Now I am of the persuasion, and I am a
3 reasonable man and I will listen and if you have got a
4 problem I will sit down and talk about it, but if this
5 goes on line, and with my friends and family in the
6 area, if any of them are hurt or injured, I personally
7 am going to be looking for somebody's hide to nail to a
8 wall, and I know some of my friends that also will
9 become very active at the time and we will also be
10 collectively looking for somebody's hide to nail to a
11 wall.

12 I just will say in closing that if I had the
13 throw-weight of the NEC behind me, the Limerick plant
14 would be a parking lot in 72 hours.

15 Thank you very much.

16 (Applause.)

17 MR. MOODY: James McKnight.

18 PRESENTATION OF JAMES McKNIGHT

19 MR. McKNIGHT: My name is James McKnight. My
20 address is Box 400, Route 309, Coopersburg,
21 Pennsylvania, 18036.

22 I am here tonight speaking for the sportsmen
23 of Pennsylvania and particularly of Bucks County of
24 which I am a resident. I am Vice President of
25 Pennsylvania Federation of Sportsmen's Clubs which is

1 the largest nonprofit conservation organization in the
2 State with 135,000 paying members.

3 We are particularly concerned over the water
4 aspect of this project. There are two phases, as you
5 know. One is the water supply for Bucks and Montgomery
6 Counties, and I am not sure whether we are addressing
7 that tonight because you are speaking specifically of
8 the Limerick plant. But it does affect the whole
9 operation because the two are tied together.

10 The 95 million gallons per day which is the
11 total of the pumping estimated need at peak operation is
12 to be divided into two parts. Limerick is to receive 46
13 million gallons per day. Of that 46 million, 33 million
14 is to be the peak need for the operation of the plant,
15 as I understand, if both reactors are in service. That
16 means that you have the difference between 46 and 33
17 million gallons per day which is not going to be used
18 for anything except for the flow of the stream.

19 Now, the question is the environmental impact
20 study has never been completed on the two streams that
21 will be involved in this pumping project, namely, the
22 Perkiomen and the Neshaminy. The discharge of the pumps
23 from Point Pleasant enter these streams at the very head
24 waters. In the summertime, this time of the year, there
25 is no water in the streams at either one of those sites.

1 but this is the time of the year that the water will be
2 needed for Limerick. So you are going to discharge from
3 those pumps 46 million gallons per day into that stream,
4 and from the other one will be 49 million to go into the
5 Neshaminy for that water supply there.

6 Now they have never completed the impact study
7 on this stream. Another question that comes up is they
8 are doing something here that they have not done in a
9 major project any place in the Commonwealth of
10 Pennsylvania, and that is to allow this water to run
11 free flow on that stream. The Perkiomen is
12 approximately 27 miles. The Neshaminy is about seven
13 miles.

14 Again, we have not had a complete
15 environmental impact statement on this portion of the
16 operation. In the Neshaminy you need 40 million gallons
17 a day to augment the water supply in the Neshaminy Creek
18 basin. Of that the 9 million gallons will not be used
19 for water supply. Part of it will be to augment the
20 flow of the Neshaminy Creek. The problem with the
21 Neshaminy Creek is that we have too many sewer plants
22 that are overloaded or up to capacity and the stream
23 cannot be properly flushed. So they are telling you
24 that we are going to add this much water to the
25 Neshaminy Creek so we can improve the trout fishing.

1 That is a bunch of malarkey.

2 Now this same water then flows into the
3 Delaware River and that water then goes to
4 Philadelphia. That is where Philadelphia gets their
5 water supply.

6 Now let's get back to the nuclear station at
7 Limerick. The needs there, as I understand it, is for
8 the two stations. There is a question now whether the
9 both will be in operation. The water needed for
10 Limerick would normally be supply from the Schuylkill
11 River until the flow reaches a minimum flow or a
12 temperature control. Then it will be pulled from the
13 Delaware. When it is pulled from the Delaware you have
14 the same condition in the Delaware as you have in the
15 Schuylkill.

16 The original plans called for all the cooling
17 water to come from the Schuylkill River. I question
18 you. If the Limerick Station is to have one cooling
19 tower and one power station in operation, do we need
20 that water other than what is in the Schuylkill river,
21 because the original plan called for storage basins in
22 the Schuylkill River basin. That would have been great
23 because that would have increased the flow daily of the
24 water in the Schuylkill River and would improve the
25 conditions of that stream. But now we are going to pump

1 it from the Delaware over to the Schuylkill River.

2 Let's get back to the fish. In the Delaware
3 River we have one of the finest shad runs in the
4 nation. It is dependent on the flow of the water in the
5 Delaware for those fish to migrate and to propagate in
6 that stream. The fact is that the flow in the Delaware
7 River is controlled basically by the State of New York.
8 They are required to maintain a specific flow in the
9 Delaware River Basin.

10 We are talking about the only river in the
11 eastern part of the country that has no major dams on
12 it. We are talking about a stream now that supports a
13 fine shad reproduction every year. We don't want to
14 lose it. We fought a long time to get it the way it
15 is. It has only been within the last 15 years that we
16 have had this condition. The Schuylkill River flows
17 into the Delaware in Philadelphia. Right now we are
18 trying to establish a shad run in the Schuylkill. We
19 have them going back up the stream and we hope to
20 continue to maintain that.

21 We don't feel that this Limerick project is
22 conducive to good environmental planning for the
23 Commonwealth of Pennsylvania.

24 Thank you.

25 (The material submitted by Mr. McKnight for
the record follows:)



FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA

March 9, 1982

FREE PRESS
312 West Broad Street
Quakertown, PA 18951
ATTENTION: Mr. Andrews-Editor

Dear Mr. Andrews:

Your headline, "Warren: Water Project Near" contains some inaccuracies which both Andrew Warren and Elaine Zettick have been stating as fact since their election to office.

1. There is a lot more than one permit to be issued on this project as yet.
2. The water supply for Montgomery and Bucks counties, which is to be 49 Million Gallons Per Day, (MGD) will be used for domestic and commercial purposes. 3 MGD will be used to flush the treated sewage down the Neshaminy Creek to the Delaware River.
3. The Northern spur will carry water thru Souderton, Sellersville, Telford, up to Quakertown! Does Quakertown need additional water and will all property owners be required to hook up to this system?
4. Will 46 MGD overload the sewage plants now in operation? The primary purpose of N.W.R.A. is to sell water to the new industry and home development projects in the farm lands and undeveloped sections of Upper Bucks and Montgomery counties.
5. The water for F.E. Limerick Plant will come from the Delaware River via the Perkiomen Creek and the Schuylkill River, and this, only if the Merrill Creek reservoir is built in New Jersey.
6. Mr. Warren infers that 3 impact studies have been completed. He knows there never has been an E.I.S. on the Perkiomen and the Neshaminy Creeks.
7. The alternate solutions are development of the water storage areas in the Schuylkill River Basin; Construction of the Evansburg Reservoir in Montgomery County; (the land was purchased in the early '70's and is laying unused) Purchase additional water from Philadelphia as they are doing now; Use the water from Lake Nockamixon.

CONSERVATION PLEDGE

I give my pledge as an American to save and faithfully to defend
from waste the natural resources of my country -
its soil and minerals, its forests, air, waters and wildlife.





FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA

March 9, 1982

Mr. Warren does not mention the fact that the Point Pleasant Project can drastically effect the Delaware River estuary which supplies water, directly or indirectly, for 7 million people in the Delaware Basin. There is one of the finest shad fisheries in the eastern United States, which will be in jeopardy under the present plans.

Mr. Warren has a responsibility to tell the full story on this project even though his political commitment over the past years has been "Build The Point Pleasant Diversion Come Hell Or High Water"!

Sincerely,

James McKnight

JMK/jmq

CONSERVATION PLEDGE

I give my pledge as an American to save and faithfully to defend
from waste the natural resources of my country -
its soil and minerals, its forests, air, waters and wildlife.



COMMENTS ON
THE POINT PLEASANT/NORTH BRANCH WATER TREATMENT PLANT
ENVIRONMENTAL IMPACT ASSESSMENT

a Statement by James McKnight, First Vice President
Pennsylvania Federation of Sportsmen's Clubs

before the district office of the U.S. Army Corps of Engineers

Thank you for this opportunity to comment on the Point Pleasant diversion.

I will preface my remarks by briefly describing the Pennsylvania Federation of Sportsmen's Clubs. The Federation is the official state affiliate of the National Wildlife Federation the World's largest private conservation organization. In addition, the Pennsylvania Federation of Sportsmen's Clubs is Pennsylvania's largest conservation organization with well over two hundred thousand dues-paying members.

This testimony I'm about to present is also endorsed by the National Wildlife Federation.

The Federation has reviewed the proposal submitted by the Meshaminy Water Resource Authority for the purpose constructing a water intake structure in the Delaware River some distance (not clearly identified) downstream of the junction of Tochickon Creek near Point Pleasant, Bucks County, Pennsylvania.

We, the Pennsylvania Federation of Sportsmen's Clubs are unalterably opposed to the diversion as currently proposed for the following reasons:

(1) The diversion places a substantial additional drain on an already over-allocated river basin. We firmly believe last year's drought pointed to the folly of making more people dependent upon a river that is already supplying water to nearly ten percent of the Nation's population. If approved, an additional 49 million gallons will ultimately be taken and about 44 million will return as treated sewage for downstream use. Additional dependency can only exasperbate an already serious problem.

(2) The diversion will allow and infact, will implicitly encourage twenty percent more growth in the Bucks/Montgomery county area over the next two decades. This is a serious and unaddressed issue. Do the people of these counties want this growth? What will happen to the remaining prime agricultural land in these counties? Will the air resource sustain this expansion? The real Question is how much growth in a region is enough? Should diminishing and polluted ground and surface water supplies be an indicator of a natural growth limitation? Should every square foot of land be covered with concrete, steel and shingles?

I for one, find little solace in contemplating a future where every niche is subdued for factories, shopping centers and homes. An overcrowded landscape is not very conducive for the satisfying of my needs for solitude, natural beauty or for the wildlife I have enjoyed throughout life.

(3) The diversion will allow the ninety-eight toxic pollutants found in the lower Delaware (identified in a MIT study 1979) to become more concentrated and therefore when flow falls below Q7-10, to exceed safe levels. What steps are being taken to protect Philadelphia and other down stream users against these toxic pollutants found in higher concentrations as a result of Point Pleasant Withdrawals? What steps are being taken to protect Neshaminy water users?

(4) PECO is not required to construct the proposed Mirrill Creek and other needed reservoirs prior to getting the use of Delaware water. The BCM report indicates: "PECO and other members of a consortium of utilities are planning to construct..." Where's the firm commitment! Without adequate makeup water, people will be faced with the untenable position of having to chose between cooling a reactor or having drinking water.

(5) Information on the actual planned operation of the system is woefully inadequate. A much more detailed and up-to-date model should be developed to assess the operation of the Point Pleasant system as it will interface with the Delaware River. The model should simulate impact on the lower Delaware and its estuary at various river flow/withdrawal rates. This of course, is very critical for determining impacts during drought emergencies. The model would also tell us how much upstream capacity should be required of PECO prior to approval for withdrawal permit.

(6) We believe the issue of impingement and entrainment is inadequately addressed. Losses should be prevented if possible. Mitigation measures should be required for all fish losses. In addition, perhaps as an expression of its sense of public responsibility PECO should play a greater role in the various Shad restoration efforts in the Commonwealth including providing passageways at its dam.

(7) We concur with the U. S. Fish and Wildlife Service's concerns regarding the impact upon the Delaware Estuary Resource and we are particularly concerned with the cumulative effect of all the out-of-basin transfers and consumptive losses within the basin. We strongly believe the Point Pleasant Project will have a severe impact on the lower Delaware and Delaware Estuary. Even the DRBC admits that during drought emergencies, "the dissolved oxygen criterion may be violated for short periods of time in the public interest." What is being said in a bureaucratic way is there are going to be massive fish kills during droughts. (fish can not live without oxygen even for "short periods of time in the public interest.") The Fish and Wildlife Service warns:

"additional loss of 150 cfs could cause DO to drop below survival levels of fish and other aquatic organisms in parts of the Delaware estuary."

Because of the magnitude and importance of the above concerns, we recommend that issuance of the requested permit be denied at this time.

The Army Corps of Engineers has been entrusted with important responsibilities for protecting our environmental future. With that power goes a need for cautious, responsible leadership.

We have before us a major and yes, a critical resource decision. Shouldn't we resolve all outstanding problems before moving ahead.

Thank you.

LJS/clb

AROUND THE STATE

POINT PLEASANT—MORE THAN A DIVERSION

Water is becoming an increasingly valuable resource. Like gold, its future value can only increase. There will never be more water on this planet; there is as much today as there was when the pilgrims set foot on Plymouth Rock. It is becoming more uncommon to find this very common element in a pure state. Yet our needs for pure water may well exceed the supply.

Jim McKnight looks at a particularly troublesome area this month, considering water diversion from the Delaware River at Point Pleasant, Bucks County.

What is the Delaware River Basin? How is it safer than the other river basin in the nation?

The Delaware River Basin is the 33rd largest river in the United States, supplying water for portions of Pennsylvania, New Jersey, Delaware and New York. Fifty-percent of the drainage lies in Pennsylvania, twenty-five percent drains portions of New Jersey, less than twenty-percent is in New York, the remainder is in Delaware.

Waters from the Delaware River are extremely important in maintaining the economy in the area through which it flows.

Seven million people live in the Delaware River Basin. The Camden-Philadelphia area is the largest freshwater port in the world. The economic base of the area lies in the lower regions of the Delaware River Basin.

There are three major differences in the Delaware River Basin in comparison to the other watersheds throughout the United States:

(1.) The relative smallness of its drainage area; (2.) The enormity of the demands placed upon it, and; (3.) Use of the estuary as a source of potable water supply.

For instance, envision an area relief map of the United States with the whole central area between the Rocky and the Appalachian Mountains as one vast drainage estuary basin known as the Mississippi River Basin. Check the same map and find the Delaware River Basin. This will immediately show the smallness of the Delaware River Basin as compared to other major river basins.

The demands on the Delaware River Basin are tremendous. Not only must it supply water for the nation's fourth largest metropolitan area, which consists of the Camden-Philadelphia, but it also supplies half of the water for the greater New York City area the largest suburb in the nation. The ironic fact is that New York City has virtually untapped the larger Hudson River as a water

supply source for its metropolitan area.

The smallness of the Delaware River imposes a technical problem in the estuary, headwaters by a tremendous build-up of silt—a sort of underwater mini-delta. To flush out the sediment build up, and to maintain a healthy river and estuary system, a natural flow is needed, especially high flows of water in the winter and spring. Loss of flushing in the estuary, cause by mainstem dams, like Tocks Island Reservoir, would prevent this flushing action.

New York City, under a Supreme Court decision of 1954, is required to make releases from its reservoir in the upper basin to maintain the proper flow in the Delaware River. There is no guarantee that the water flow will be maintained for the estuary except at the gauging station at Montague, New Jersey, which is 100 miles upstream from the head of the Delaware Bay estuary at Trenton, New Jersey. The most frightening aspect which jeopardizes the health and welfare of the basin's seven million people, is that there is no guarantee minimum flow to the estuary nor any upper limit to the amount of water that may be taken away from the normal flow.

... Should the Delaware River Basin Commission be investigated?

WHAT IS THE PROPOSED POINT PLEASANT PLAN?

The proposed purpose of the Point Pleasant diversion is two fold:

(A.) To supply all the cooling water to the Philadelphia electric company's (PECO) nuclear power station at Limerick, located on the Schuylkill River, and; (B.) To provide a source of potable water for the central Bucks and Montgomery counties. Estimated to be 95 million gallons per day (MGD).

All the water which is used by PECO, which is to be drawn only when cooling water is not available in the Schuylkill River, will be totally lost from the Delaware River watershed.

Water supply for the Bucks-Montgomery Counties and for PECO nuclear power plant initially were conceived as separate projects. The Delaware River Basin Commission (DRBC) suggested combining the facilities about ten years ago as a cost cutting measure. The combined facilities called for PECO to purchase water from Bucks County thru the Point Pleasant Pumping Station, which the county would build.

PECO received approval for all its water supply needs at the Limerick site some years

ago. Problems rose throughout the diversion history and spans many county administrations. Lower Bucks County suppliers and users objected to the huge amounts of water being taken away from the upper estuary, and the projects costs and obvious relation to the planned Tock Island Project.

Although there is a genuine need for potable water in the area, it is much less than originally thought when the initial plans were conceived.

Were all of the alternatives considered prior to the approval the Point Pleasant Diversion?

A number of alternatives have not been fully considered, either for cooling water supplies for the PECO Limerick Power Plant, or for the municipal water supply in the Bucks/Montgomery county area.

There are at least three reservoir sites in the Schuylkill River Basin which could be developed to supply water for the Limerick Power Plant Station. If this were done the transmission of water from the Delaware River to the Schuylkill River watershed via the Perkiomen Creek would be totally unnecessary. PECO's cooling water needs should come from the Schuylkill River and not the Delaware! This would eliminate many of the present problems.

Blue Marsh Reservoir, which is located in the Schuylkill River Basin up-stream from the Limerick Plant, has been completed since the plan was first proposed.

The Department of Environmental Resources (DER) owns the property which was originally to be the site of the Evansburg Reservoir and is now part of a state park. This reservoir was never developed. It lies in the central portion of the Montgomery County water shortage area. A state study shows that this reservoir could be built to supply water for less than one third the cost of water supply by the presently proposed plan.

Additionally General Public Utilities (GPU) offered PECO the use of the water supply reservoir for the proposed Bern Power Plant near Reading, PA. The Bern facility has been dropped and this source of water never developed for the Limerick Station.

The Nockmixon Reservoir (Bucks County), which also belongs to DER, could be the primary source of water for the upper reaches of Bucks and Montgomery County and would also be a less costly solution for local needs. Lake Galena could be used for local water supply without increasing presently planned draw downs from this existing reservoir.

Expert testimony reveals that the ground water supply is under, not over, developed as indicated in the documents from the Delaware River Basin Commission. A major ground water study by the DRBC is under

way, but its results are not known and are therefore not considered in the evaluating needs of this project.

Has the Environmental Impact Statement (EIS) been completed on this project?

The Delaware River Basin Commission has based its decisions on reports made in the early '60's up thru the last report in 1973. They are inadequate for the project to be approved and construction to begin.

Although the Environmental Protection Agency originally insisted that this EIS be completed (it has changed its mind since the past election), the PA Fish Commission, the Department of Interior-US Fish and Wildlife Service, Audubon Society, the PA Bass & Shad Fishermen, the PA Federation of Sportsmen Clubs, and other concerned citizens continue to ask that this impact study be completed. DRBC has continued to proceed with the construction plans without a full, updated EIS!

WHAT ARE THE PROBLEMS INVOLVED?

The waters to be diverted from the Delaware River into Neshaminy and Perkiomen creeks will not be piped all the way. It will run free flow from points in each stream, the Perkiomen Creek to the Limerick Station and the Neshaminy Creek to the Water Treatment Plant in Chalfont, PA. The use of natural stream beds as open pipes is a precedent which will set a new policy for the Delaware River Basin.

The water transfer via the Perkiomen Creek to the Limerick Station will remove 46 million gallons per day from the Delaware for operation of nuclear power station cooling tower. This water will be totally lost from the Delaware River Basin. This impact study needs considerably more evaluation.

What is the impact on the Delaware River fisheries? It is essential that the impact on fisheries be evaluated. The water withdrawal would reduce the River's flow, especially during the most critical period of naturally low flow, this would contribute to the Delaware estuary's pollution block in that time space. This could greatly affect the migration of American shad during the spring spawning run, as well as the down river migration of juveniles in the fall.

The Delaware River Basin for years had lost shad and herring fisheries due to major pollution problems in the stream. Through the efforts of the organizations listed above, the Delaware River has been cleaned up and these migration runs have been restored. The Schuylkill River is now in the process of reestablishing the shad fisheries. This will continue to be one of our aims. Under the present DREC plans, the shad and other fisheries programs could be totally destroyed.

WHAT OTHER STEPS ARE BEING CONSIDERED AT THIS TIME?

Conservation groups continue to ask for an up-dated environmental impact study, by an impartial agency, to be completed on this entire project. Requests for appropriations to

An Environmental Impact Statement has never been completed.

complete this project have been presented to proper committees and the U.S. House of Representatives and Senate. The primary concern is that the Point Pleasant Diversion, as it is proposed, is a dangerous precedent.

Is the Delaware River Basin Commission doing the job it's suppose to do? Its primary purpose is to protect the health, safety, and welfare of the people in the basin. It's been well documented that the Point Pleasant Diversion is only the first step of a large plan to take water away from one watershed and transfer it to another. The DRBC has been inflexible and created more problems than they had solved. One wonders, might a major investigation of this agency be in order?

tions in the Delaware River basin.

Thanks for great fishing fun.

PAUL CRESS
Brookhaven

Dear Mr. Cress:

Thank you for your compliments regarding our management of the state's fisheries resources and for your praise of the Pennsylvania Angler. We are greatly encouraged by the fact that our efforts to improve fishing in the Commonwealth are being noticed by sportsmen such as yourself. We hope that the results of our efforts will mean more fishing enjoyment for you.

The Point Pleasant Diversion is a proposed series of pump stations, pipe lines, reservoirs, and streams which at full operating capacity would withdraw and transport 95 million gallons of water per day (95 m.g.d.) from the Delaware River. Of the 95 m.g.d., 49 m.g.d. would be withdrawn for public water supply in 10 boroughs and 25 townships in Bucks and Montgomery Counties. Ultimately 40 m.g.d. would be used as water supply; 4 m.g.d. would constitute evaporative and seepage losses and 5 m.g.d. would augment flows in the North Branch of Neshaminy Creek. The remaining 46 m.g.d. would be utilized for cooling water purposes at Limerick Nuclear Power Plant, located on the Schuylkill River near Pottstown.

All potential effects on the Delaware River's fisheries would be negative. The water withdrawal would reduce the River's flows and, therefore, the amount of habitat available to the River's fish populations. This would be most critical during periods of naturally low flows, such as those experienced during the 1980-1981 drought. Reduced flows could also contribute an extension of the Delaware Estuary's pollution block in space and in time. Under the flow conditions that exist without the Point Pleasant Diversion the pollution block already limits the size of the Delaware River's American shad population by restricting the upstream and downstream migrations of adults during the spring spawning run. It also controls the out-migration of juveniles in fall. Low flows in early spring or late fall could be disastrous to American shad runs.

Of great concern is the removal of relatively clean water from the Delaware River for potable water supply and the return of 90 percent of that water to the Delaware Estuary via Neshaminy and Pennypack Creeks as treated sewage. Due to the large population densities in Bucks and Montgomery Counties which have been stimulated by uncontrolled development, most sewage treatment plants are overloaded with wastes, resulting in inadequate treatment for the survival of many pollution sensitive aquatic life forms. Increased population growth invited by this artifi-

cially increased water supply in the region will produce even larger volumes of sewage. Since population growth in the region often exceeds the rate at which sewage treatment facilities are improved, even greater overloading may be anticipated. The probable increase in organic waste entering the Delaware Estuary will further contribute to the yearly formation of the Delaware Estuary's pollution block, which limits both anadromous and resident fisheries.

Impingement and entrainment of egg, larval, and juvenile stages of resident and anadromous fish by the Point Pleasant Pumping Station will result directly in fish mortality, the degree of which will depend

upon the design of the water intake system. Impingement is the trapping of fish on the intake screens and entrainment is the sieving of fish by the screens. This could have a negative effect on the local fish populations, especially if American shad are restored to the lower Delaware. The Diversion will also contribute to the cumulative loss of fish in the Delaware River resulting from industrial water withdrawals.

Thank you for your interest in the Delaware River's fisheries.

Sincerely yours,
Michael L. Kaufmann
Area Fisheries Manager



Cycling to his favorite, the Delaware River, George Saylor, of Martins Creek, doesn't let the high price of gasoline worry him! Photo: Dennis L. Charadin.

FACT SHEET

Point Pleasant Diversion

Purpose: To divert 95 million gallons per day of water from the Delaware River at Pt. Pleasant, PA, to the Neshaminy and Perkiomen Creeks. Up to 49 million gpd will be used to expand the water supply system for Bucks and Montgomery Counties. About 46 million gpd will be delivered to the Limerick Nuclear Generating Station to supplement Schuylkill River flows.

Components: The project entails a pumping facility at the Delaware and a conveyance system to the North Branch, Neshaminy Creek and the East Branch, Perkiomen Creek. Water diverted to Lake Galena via Neshaminy Creek will be treated at a water treatment plant and pumped to the counties' water supply system. Water diverted to the East Branch, Perkiomen Creek will be used 8 to 9 months per year to augment Schuylkill River water for the Limerick Station.

Project Sponsors: Neshaminy Water Resources Authority and Philadelphia Electric Co.

DRBC Action: Granted approval for the withdrawals on February 18, 1981 filed a Negative Declaration on the need for a new EIS, August 1980.

Need for Environmental Impact Statement: The project was originally conceived as a component of the basin plan premised upon the Tocks Island Dam. Several early studies, including an EIS published in early 1973, were performed to evaluate its anticipated environmental impacts. Project changes, de facto deauthorization of Tocks Island Dam, and more recent refinements in the diversion plans render much of the early material obsolete. There is a need to draw from all existing information, to further evaluate changing conditions, and to do an up-to-date EIS on the project as currently proposed.

The following areas are currently found to be deficient:

- 1) There has been significant material modification to the proposed structural design not addressed in the 1973 document:
- 2) The Corps' 404 Permit assessment performed by Betz, Converse & Murdock, Inc. identifies numerous areas where environmental analysis is deficient. To date, no further investigations have been performed in these areas.
- 3) Delaware River flow at Trenton during the drought of January 1981 sets a new low level of record. This new information must be considered in determining the environmental impacts of the diversion project.
- 4) The Delaware River provides water to nearly 10% of the nation's population. The Point Pleasant Diversion must be evaluated in light of the potential for over-allocating this resource.

- 5) The diversion will facilitate 20% more growth in the Bucks/Montgomery County area over the next 2 decades. The impacts of such urbanization are unaddressed in any previous assessment of the diversion.
- 6) The diversion will allow the 98 toxic pollutants commonly found in the lower Delaware River (identified by an MIT study in 1979) to become more concentrated during low flows. State water quality standards will be violated more often and with more severity as a result of the reduction in the river's assimilative capacity. Steps to be taken to protect Philadelphia and other downstream users from this increased hazard have yet to be identified.
- 7) As a result of the rejection of Tocks Island Dam, the current relationship between the diversion and complementary storage reservoirs elsewhere in the basin has not been resolved, nor impacts ascertained.
- 8) Information on the planned operation of the diversion system is woefully inadequate. A more detailed model of project operation must be developed to accurately assess the environmental impacts of the proposed withdrawals upon the lower Delaware and its estuary. This is critical for determining impacts during drought emergencies.
- 9) The impingement and entrainment of fish is inadequately addressed in previous assessments. Mitigation measures have not been fully developed to compensate for such losses.
- 10) The U.S. Fish & Wildlife Service and the DRBC predict that depressed levels of dissolved oxygen will cause fish kills in the lower Delaware and its estuary. The extent and recurrence of these episodes requires further documentation.

Attachments

PENNSYLVANIA FEDERATION OF SPORTSMEN'S CLUBS, INC.

Representing 1013 Affiliated Clubs with a Total of 200,508 Members

(Affiliate of National Wildlife Federation)

1718 N. Second Street

Harrisburg, Pa. 17102

Telephone (717) 232-3480

JAMES McKNIGHT
First Vice President

April 6, 1981

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First Vice President
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Hon. John F. Murtha
U.S. Representative
2422 Rayburn Office Bldg.
Washington, DC 20515

Dear Congressman Murtha:

I'm sure you're aware of the concern of many Pennsylvanians about the proposed Point Pleasant diversion from the Delaware River.

The Pennsylvania Federation of Sportsmen's Clubs has asked the Delaware River Basin Commission to make an Environmental Impact Statement to include the impacts on the entire Delaware Valley as well as a new and complete study of the use of the North Branch Neshaminy Creek and the East Branch Perkiomen Creek as free-flow conveyances.

Under these circumstances we are asking that an appropriation of \$250,000 be granted to accomplish this study by an impartial agency.

I'm sure you recall the fight that was carried on by the Pennsylvania Federation of Sportsmen's Clubs to clean up the Delaware River Basin which re-established the shad run as it is today. Our primary concern remains to keep the Delaware River a free-flowing stream supporting aquatic life as well as supplying water as needed for the Commonwealth and the other states bordering it.

Attached is a copy of our letter to the Delaware River Basin Commission's Executive Director, Gerald M. Hansler, which details our concerns.

Sportsmen, as well as many other Pennsylvanians,

CONSERVATION PLEDGE

I GIVE MY PLEDGE AS AN AMERICAN TO SAVE AND FAITHFULLY TO DEFEND FROM WASTE THE NATURAL RESOURCES OF MY COUNTRY - ITS SOIL, AIR, MINERALS, FORESTS, WATERS AND WILD-LIFE

IN ALL ASSEMBLIES OF AMERICANS - LET THIS PLEDGE RING OUT!





FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA

April 6, 1981

State Senator Edward L. Howard
16 North Franklin Street
Doylestown, PA 18901

Dear Ed:

We sportsmen in Bucks County really appreciated your attendance at the public meeting on the Quakertown sewer plant and the Delaware River Diversion problems. All reaction that I heard was favorable to your comments, especially those to Mr. Weston.

I will contact your office to arrange for discussion of these problems with you and other legislators in the near future.

Thanks again. I remain,

Sincerely yours,

Jim McKnight
Jim McKnight
Conservation Committee
Chairman

JM/en

CONSERVATION PLEDGE

I give my pledge as an American to save and faithfully to defend
from waste the natural resources of my country --
its soil and minerals, its forests, air, waters and wildlife.



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(717) 629-0927

Senator Arlen Specter
Suite 253
Russell Senate Office Building
Washington, D.C. 20510

Dear Senator:

I'm sure you're aware of the concern of we Pennsylvanians about the proposed Point Pleasant diversion from the Delaware River. As your Conservation Committee chairman during your successful campaign to become our United States Senator, I discussed this problem with you on several occasions.

The Pennsylvania Federation of Sportsmen's Clubs has asked the Delaware River Basin Commission to make an Environmental Impact Statement to include the impacts on the entire Delaware Valley as well as a new and complete study of the use of the North Branch Neshaminy Creek and the East Branch Perkiomen Creek as free-flow conveyances.

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Attached is a copy of our letter to the Delaware



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IN ALL ASSEMBLIES OF AMERICANS - LET THIS PLEDGE RING OUT!

Senator Specter

-2-

April 6, 1981

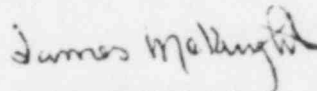
River Basin Commission's Executive Director, Gerald M. Hansler, which details our concerns.

Sportsmen, as well as many other Pennsylvanians, are seriously concerned that unless this project is fully examined in depth it will set policy by precedent, rather than through informed discussion and study.

The National Wildlife Federation, the U.S. Dept. of Interior Fish and Wildlife Service, the U.S. Environmental Protection Agency, Region III, the Pennsylvania Fish Commission, Trout Unlimited of Pennsylvania, as well as state, county and local officials have asked that this be done.

I would be glad to discuss this in further detail with you or anyone on your staff at your convenience. My phone number is (215) 282-1182.

Respectfully,



James McKnight
1st Vice President, PFSC

JM/en
enclosure

March, 1981

COMMENTS ON
THE POINT PLEASANT/NORTH BRANCH WATER TREATMENT PLANT
ENVIRONMENTAL IMPACT STATEMENT

A STATEMENT BY JAMES McKNIGHT, FIRST VICE PRESIDENT
PENNSYLVANIA FEDERATION OF SPORTSMEN'S CLUBS

BEFORE THE DELAWARE RIVER BASIN COMMISSION

THANK YOU FOR THIS OPPORTUNITY TO COMMENT ON THE SO-CALLED NEGATIVE DECLARATION REJECTING THE NEED FOR AN ENVIRONMENTAL IMPACT STATEMENT FOR THE PROPOSED NORTH BRANCH WATER TREATMENT PLANT AND THE POINT PLEASANT DIVERSION PLAN.

I WILL PREFACE MY REMARKS BY BRIEFLY DESCRIBING THE PENNSYLVANIA FEDERATION OF SPORTSMEN'S CLUBS INC. THE FEDERATION IS PENNSYLVANIA'S LARGEST NONPROFIT CONSERVATION ORGANIZATION WITH OVER TWO HUNDRED THOUSAND DUES PAYING MEMBERS. WE ARE ALSO THE VOICE FOR OVER A MILLION SPORTSMEN AND WOMEN ACROSS THE COMMONWEALTH.

WE, THE PENNSYLVANIA FEDERATION OF SPORTSMEN'S CLUBS FIRMLY BELIEVE AN ENVIRONMENTAL IMPACT ASSESSMENT SHOULD BE CONSIDERED IN THE EVALUATION OF THE POINT PLEASANT PROJECT. CURRENT STATEMENTS DO NOT ADEQUATELY ADDRESS THE REAL ISSUES.

FOR INSTANCE, THE ISSUE OF LOW-FLOW IN THE DELAWARE SHOULD RECEIVE CAREFUL STUDY. THE COMMISSION HAS STATED THAT UP TO 95 MGD WILL BE WITHDRAWN IF THE FLOW AT TRENTON IS MORE THAN 3,000 CFS, THEREBY REPRESENTING A 5% DIVERSION. HOWEVER THE SPECIFIC AMOUNT OF DIVERSION PERMITTED WHEN THE FLOW AT TRENTON FALLS BELOW 3,000 CFS IS NOT CLEAR. CONCISE PROCEDURES SHOULD BE ESTABLISHED FOR ALL DIVERSIONS UNDER ALL POSSIBLE CONDITIONS.

THE IMPACT OF A 5% DIVERSION ON THE AQUATIC HABITAT DURING LOW-FLOW PERIODS HAS NOT BEEN STUDIED. A 5% DIVERSION MAY APPEAR TO BE RELATIVELY INSIGNIFICANT IN A GENERAL SENSE, BUT COULD BECOME EXTREMELY CRITICAL IN TERMS OF ASSIMILATIVE CAPACITY DURING LOW-FLOW PERIODS. THE EFFECT OF SUCH A DIVERSION SHOULD BE ANALYZED ESPECIALLY AS IT RELATES TO FURTHER CONCENTRATION OF THE NINETY-EIGHT POLLUTANTS FOUND IN THE LOWER DELAWARE AND IDENTIFIED BY MIT STUDIES.

THE FEDERATION IS ALSO CONCERNED WITH HOW CUMULATIVE WATER WITHDRAWALS WILL AFFECT AQUATIC HABITAT. THE COMMISSION HAS CONCLUDED THAT THE POINT PLEASANT WITHDRAWALS OF 95 MGD WILL NOT HAVE A SIGNIFICANT IMPACT ON AQUATIC LIFE. THAT CONCLUSION WAS BASED ON THREE PREVIOUS STUDIES CONDUCTED FOR THE MARTIN'S CREEK, GILBERT AND PORTLAND ELECTRIC GENERATING STATIONS ON THE DELAWARE. THESE STUDIES MEASURED THE IMPACT OF INDIVIDUAL WATER WITHDRAWALS OF 144 MGD - 274 MGD AND CONCLUDED THAT THE WITHDRAWALS HAD AN INSIGNIFICANT IMPACT ON FISH EGGS AND LARVAE.

NO ONE HAS ATTEMPTED TO MEASURE THE CUMULATIVE EFFECT OF ALL WATER WITHDRAWALS IN THE DELAWARE. IT IS THIS EFFECT WHICH TAKES ITS TOLL ON AQUATIC ORGANISMS AND MORE IMPORTANTLY ON PHILADELPHIA'S POOR DRINKING WATER QUALITY WHICH RANKS AS ONE OF THE WORST NATIONALLY, THIS SHOULD BE ANALYZED CAREFULLY.

ANOTHER ISSUE WHICH NEEDS DETAILED STUDY IS WHETHER THESE NEW WATER USERS SHOULD PROVIDE MAKEUP WATER FOR THE DELAWARE. AN ADDITIONAL RESERVOIR MAY BE NEEDED TO PROVIDE MAKEUP WATER WHEN THE RIVER FLOWS AT TRENTON APPROACH 3,000 CFS.

ACCORDING TO THE COMMISSION MAKEUP WATER WOULD NOT BE NEEDED FOR LIMERICK AND THE NESHAMINY WATER RESOURCES AUTHORITY BECAUSE WATER WOULD ONLY BE EXTRACTED AT POINT PLEASANT WHEN RIVER FLOW AT TRENTON EXCEEDS 3,000 CFS. IN ADDITION IT IS SUGGESTED THAT LIMERICK'S WATER-USE PERMIT ALLOWS FOR THE CURTAILING OR SUSPENSION OF PLANT OPERATION DURING LOW-FLOW PERIODS IN THE ABSENSE OF COMPENSATING RELEASES. BUT IT IS UNCLEAR WHETHER OR NOT THE CURTAILMENT OR SUSPENSION IS MANDATORY. IT IS ALSO UNCLEAR WHETHER THE NESHAMINY WATER RESOURCES AUTHORITY IS ALSO SUBJECT TO THOSE SAME PROVISIONS. IF SO, WHAT ALTERNATIVES DO THEY HAVE IN A PROLONGED DROUGHT?

A DISCRETIONARY COMMISSION POLICY IS INADEQUATE. CURTAILMENT OR SUSPENSION AS A DISCRETIONARY COMMISSION ACTION DURING LOW-FLOW PERIODS MAY NOT FULLY PROTECT THE PUBLIC.

HISTORICAL DROUGHT RECORDS FOR THE SCHUYLKILL AND DELAWARE INDICATE THAT LIMERICK WOULD PROBABLY BE CRITICALLY DEPENDENT UPON THE DELAWARE FOR COOLING WATER DURING THE DELAWARE'S LOW-FLOW. CAN THE COMMISSION BE RELIED UPON UNDER INTENSIVE PRESSURE TO EXERCISE ITS DISCRETION DURING SUCH SITUATIONS?

THE MOST SERIOUS AND UNADDRESSED ISSUE IS THE DIVERSION OF 45 MGD FOR THE NESHAMINY WATER RESOURCES AUTHORITY. THIS NEW WATER WILL ENCOURAGE MORE DEVELOPMENT IN BUCKS/MONTGOMERY COUNTY AREA. SUCH DEVELOPMENT WILL BE CRITICALLY DEPENDENT UPON THOSE WITHDRAWALS FURTHER EXPLOITING AN OVEREXTENDED RIVER BASIN. THIS DEPENDENCY WILL INTENSIFY DURING TIME OF LOW-FLOW AND WOULD HINDER THE COMMISSION'S ABILITY TO SHUT DOWN THE POINT PLEASANT PUMPING STATION DURING PERIODS OF DROUGHT.

THE REAL QUESTION IS HOW MUCH GROWTH IN A REGION IS ENOUGH? SHOULD DIMINISHING AND POLLUTED GROUND AND SURFACE WATER SUPPLIES BE AN INDICATOR OF A NATURAL GROWTH LIMITATION? SHOULD DEGRADED AIR QUALITY BE A WARNING? SHOULD EVERY SQUARE FOOT OF LAND BE COVERED WITH CONCRETE, STEEL AND SHINGLES?

I FOR ONE FIND LITTLE PLEASURE IN CONTEMPLATING A FUTURE BUCKS COUNTY WHERE EVERY NICHE IS SUBDUED FOR FOOD, TRANSPORTATION EMPLOYMENT OR SHELTER. NOR IS AN OVERCROWDED LANDSCAPE CONDUSIVE FOR THE SATISFYING OF MY INTERMOST NEEDS

FOR SOLITUDE, NATURAL BEAUTY OR FOR THE WILDLIFE I HAVE ENJOYED THROUGHOUT LIFE.

WHAT WORTH IS A REGION WHEN NOTHING IS LEFT TO THE UNFETTERED ACTIVITIES OF NATURE? WHEN EVERY CUBIT OF LAND IS CONQUERED FOR HUMAN BEINGS; EVERY FLOWERY PATCH OR OPEN SPACE BULLDOZED OVER, ALL WILDLIFE NOT DOMESTICATED, EXTRICATED AS RIVALS, EVERY FENCE ROW OR TREE CUT DOWN AND BURNED IN A WOODSTOVE. MUST SOUTHEASTERN PENNSYLVANIA LOSE WHAT'S LEFT OF ITS PLEASANT AMENITIES SO UNLIMITED POPULATION GROWTH CAN ABOUND? IF QUICK AND EASY REGIONAL WATER FIXES ARE ACCEPTED TO ENABLE THIS BURGEONING REGION TO SUPPORT AN EVEN LARGER, BUT NOT NECESSARILY HAPPIER OR MORE SECURE POPULATION WHAT FUTURE HAVE WE? FOR THE SAKE OF POSTERITY I HOPE WE SQUARELY FACE THIS ISSUE OF LIMITS GROWTH AS IT RELATES TO EXPANDING WATER SUPPLIES THROUGH ENGINEERED SOLUTIONS.

THE DELAWARE RIVER BASIN COMMISSION HAS BEEN ENTRUSTED WITH THE WISE USE, PROPER MAINTENANCE AND PROTECTION OF THE WATER RESOURCES OF THIS HISTORICALLY ATTRACTIVE RIVER BASIN. WITH THAT AWESOME POWER GOES A NEED FOR RESPONSIBLE AND DECISIVE LEADERSHIP.

WE HAVE BEFORE US A MAJOR AND YES, A CRITICAL RESOURCE DECISION. DON'T WE DESERVE TO HAVE ALL THE NECESSARY FACTS OR DO WE ONCE AGAIN BLUNDER FORWARD MINDLESS OF THE ULTIMATE CONSEQUENCES OF OUR ACTIONS?

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March 5, 1981

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TED METZGER, JR.
1513 LUZERNE ST. EXT
JOHNSTOWN, PA. 15905
(814) 255-6184

Alternate Delegate
JAMES N. PRICE
TANNERSVILLE, PA. 18372
(717) 629-0927

District Engineer
Philadelphia District, Corps of Engineers
Department of the Army
Custom House - 2d & Chestnut Sts.
Philadelphia, PA 19106

Point Pleasant Diversion Plan

INITIAL COMMENTS ON PERMIT APPLICATIONS NAPOF-R-80-0813-3,
dated April 6, 1981, and
REQUEST FOR PUBLIC HEARING

We request a public hearing in Bucks County on the two applications by the Neshaminy Water Resources Authority which are part of the Point Pleasant Diversion project. We are concerned about the continuation of the shad run on the Delaware and its tributaries. It is important that local sportsmen have an opportunity to see and comment upon the plans for the river intake, as well as for the intakes for the proposed water treatment plant at Chalfont.

Among the unanswered questions which concern us are:

- ecological damage to the river bed at Point Pleasant
- entrainment and transportation of aquatic life forms, especially parasitic forms such as the lamprey eel, etc.
- definition of "high-flow" skim withdrawals with regard to Delaware flow levels, in as much as the Merrill Creek reservoir proposal is closely tied to the project
- adverse impacts on flow below the Point Pleasant intake on saline control and water quality in the Estuary



CONSERVATION PLEDGE

I GIVE MY PLEDGE AS AN AMERICAN TO SAVE AND FAITHFULLY TO DEFEND FROM WASTE THE NATURAL RESOURCES OF MY COUNTRY - ITS SOIL, AIR, MINERALS, FORESTS, WATERS AND WILD-LIFE



Corps of Engineers

-2-

March 5, 1981

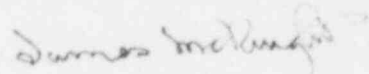
--lack of an updated, impartial Environmental Impact Statement on the Neshaminy Water Supply System, especially on the North Branch Neshaminy Creek and the East Branch Perkiomen Creek

--lack of a comprehensive water use plan for the Delaware River Basin

We oppose issuance of these permits until hearings are held and until an Environmental Impact Statement is issued.

We request the opportunity to make further comments prior to the June 6th deadline.

Sincerely,



James McKnight
First Vice President, PFSC
(215) 282-1182



FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA

January 7, 1981

Mr. Andrew L. Warren
Bucks County Commissioner
Bucks County Courthouse
Doylestown, PA 18901

Dear Commissioner Warren:

Each day we continue to receive news releases on the planned construction of the Point Pleasant Pumping Station. Along with this, each day, are unanswered questions and problems pertaining to this facility.

On November 7, 1980 we wrote to you presenting a number of questions concerning the operation of this facility. To date we have received no reply. Would it be possible to obtain this information in the near future?

In your report at the Delaware River Basin Commission hearing on November 18th you mentioned the need for water in the Warrington and Neshaminy areas of Bucks County, but no mention was made of the eastern and northern distribution lines. Do the present plans include the pumping facilities and distribution mains for these two systems?

It seems poor planning from an engineering standpoint to take water from the Tohickon Creek, pass it through Lake Nockamixon, which then discharges into the Delaware River just above the Point Pleasant Diversion intakes, then to be pumped to the Chalfont Water Treatment Plant, and then back to Quakertown. It would appear much more feasible to treat the water at the Lake, pump it back to Quakertown, and, if need be, continue the distribution lines south to include municipalities originally to be supplied by the Northern Transmission Main. Will the future users of the Northern Transmission Main facilities be required to bear the entire cost of its installation? If the suggested change were made, it would certainly appear to reduce the cost of this installation considerably.

Are there figures on the costs of construction and operation of the entire system available for public perusal? If not, will these figures be available before the first phase of construction begins?

Is PECO to have exclusive riparian rights on the East Branch of the Perkiomen Creek while they are pumping water to their Limerick Station? If so, what happens to these same rights for every land owner or water user on the Perkiomen Creek?

Within twenty years of the start-up date, how many people do you expect to be using water supplied from the Chalfont plant? Will these numbers be sufficient to cover the cost of the facilities?

CONSERVATION PLEDGE

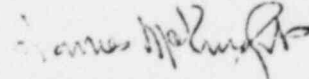
I give my pledge as an American to save and faithfully to defend
from waste the natural resources of my country —
its soil and minerals, its forests, air, waters and wildlife.



January 7, 1981

Again, we request an opportunity to have all concerned groups of Bucks County citizens get together and help to solve this problem. With the help of knowledgeable and unbiased people in the various agencies these problems could be solved. The Bucks County Federation of Sportsmen's Clubs is awaiting your reply. I remain,

Yours sincerely,



James McKnight, Secretary
Box 400, Route 309
Coopersburg, Pa. 18036

cc: Commissioner Elaine Zettick
Commissioner Carl Fonash
Mr Peter Duncan, Asst. Exec. Director
PA Dept. of Environmental Resources
The Daily Intelligencer, Doylestown
The Free Press, Quakertown
The News Herald, Perkasie
The Courier Times, Levittown



FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA
October 27, 1980

The Honorable Richard Thornburgh
Governor of Pennsylvania
225 Main Capitol Building
Harrisburg, Pa. 17120

Dear Governor Thornburgh:

The Point Pleasant Diversion, on the Delaware River, has become one of the most controversial problems of southeastern Pennsylvania. We need your help to get all the facts on the proposed construction, operation and every possible problem that might occur if this project is completed.

In 1969 the Delaware River Basin Commission, of which you are a member, proposed that they be the sole agency to control the Delaware River basin water supply, including the proposed Point Pleasant Diversion. An afterthought was to increase the Gallons Per Day (GPD) to allow the transfer, through the Perkiomen Creek, enough water to operate a 2.2 million KW Nuclear generating station on Schuylkill River. This is to be part of the electrical power supply Grid of the General Public Utility Corporation, a conglomerate of power companies controlling electrical power distribution throughout the region.

The request for construction of the Limerick Nuclear Plant was opposed by many organizations, state and federal agencies, and concerned citizens on the possible adverse environmental and economic aspects of the project.

The Joint and Water Conservation Committee held hearings in Philadelphia on the need of the huge nuclear station as well as the poor location of it, due to the lack of sufficient cooling water in the Schuylkill River watershed during low flow. This water deficiency is the only reason for the PECO's request for the water transfer from the Delaware River. Even with these problems, somehow the construction permit was issued.

One of the requirements was a complete Environmental Impact study of both water sheds. This was never completed.

Executive Director of the D.R.B.C., Gerald M. Hansler's negative Declaration of September 1980, indicated the E.I.S. on the Perkiomen and Neshaminy Creeks is not necessary. Therefore, it will not be made. Apparently the fact that this 45 MGD

CONSERVATION PLEDGE

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FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA

maximum must flow by gravity through 21 miles of the Perkiomen Creek makes no difference.

The total maximum withdrawal of 95 MGD will have a serious impact on the required water flow at the Trenton Dam during drought conditions. During this summer's dry spell, the required flow could hardly be maintained, even with a daily release from the Beltzville Reservoir.

After the fiasco at Three Mile Island, an updated survey must be made on the evacuation of the many thousand local residents, the cost to the Bucks and Montgomery residents and, more importantly, the P.E.C.O. can continue to build this multi-million dollar "White Elephant" without an Operating Permit. Who is to benefit by the Point Pleasant Diversion, the land developers in central Bucks and Montgomery Counties, the residents and taxpayers, or the Philadelphia Electric Company?

As Secretary of the Federated Sportsmen's Clubs of Bucks County, and with the approval of the Pennsylvania Federation of Sportsmen Clubs resolution at the September 20, 1980 convention, I am requesting you to direct the D.R.B.C. to fulfill its obligation to complete an impartial Environmental Impact study on the entire river basin, thereby halting any further construction on these sites.

Thank you for your consideration on this problem, as I await your reply, I am,

James McKnight

Sincerely yours,
James McKnight
Box 400, Route 309
Coopersburg, Pa. 18036

CONSERVATION PLEDGE

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from waste the natural resources of my country -
its soil and minerals, its forests, air, waters and wildlife.





FEDERATION OF SPORTSMEN'S CLUBS
of BUCKS COUNTY PENNSYLVANIA

March 24, 1980

Gerald M. Hansler, Executive Director
Delaware River Basin Commission
P.O. Box 7360
West Trenton, NJ 08628

Dear Mr. Hansler:

In reference to your intent of negative Declaration of an EIS on the streams and diversions on the Delaware River Pump Station at Point Pleasant, PA and the Neshaminy and Perkiomen Creeks.

This proposed Diversion with its dredged channel in the Delaware River will be a detrimental change to:

- (1) the Shad migration up and down the river:
- (2) to the required flow over the Trenton Dam which now controls the salt water back up at the Torresdale intake of the Phila. Water Co.'s pumping station for water supply:
- (3) to the small tributary and main channels of the Neshaminy and Perkiomen Creeks:
- (4) to the New Galena Lake for recreational purposes, and cause
- (5) impossible demands, under present conditions, for water by the Limerick Nuclear Power Station and the Bucks and Montgomery County water diversions during times of low flow or drought.

The site location of the Limerick Nuclear Station was a mistake from its inception date because of the known lack of sufficient cooling water from the Schuylkill River. The frenzied construction of housing developments and shopping centers in the Bucks-Montgomery County area have lowered the water table to a dangerously low level. But must the destruction of the entire Delaware River Basin be the price paid for these two man made problems?

We strongly urge you to reconsider the entire problem and to ask that a complete environmental impact study be made on the Neshaminy and Perkiomen Creeks, and the Delaware River Basin. We will gladly discuss the entire project with you, the Phila. Electric Company, and the Bucks County Commissioner.

Sincerely yours,

James McKnight
Secretary-S.E. Division
Penna. Federation of
Sportsmen's Clubs

CONSERVATION PLEDGE

I give my pledge as an American to save and faithfully to defend
from waste the natural resources of my country -
its soil and minerals, its forests, air, waters and wildlife.



1 (Applause.)

2 MR. MOODY: Thank you.

3 Tracy Carluccio.

4 PRESENTATION OF TRACY CARLUCCIO

5 MS. CARLUCCIO: My name is Tracy Carluccio and
6 I am a housewife in Hunterdon County, New Jersey. I am
7 representing the Hunterdon Alliance for Safe Energy, Box
8 399, Annaniale, New Jersey, 08801.

9 I was the only one who could come here
10 tonight. I am not real accustomed to this. Now my
11 husband diin't want me to come here tonight because he
12 said I would make a fool out of myself in front of a
13 bunch of smart people, but I felt it was my duty to
14 come. You see, I am from Virginia and my husband's
15 father, he had a little farm up in Hunterdon County. So
16 we came up there and I have been farming it and raising
17 children ever since I was 15. I have got about six or
18 seven running around now.

19 That is why I am here tonight, to speak for my
20 children. They can't be here so I am here to talk for
21 them, the future generation.

22 I dont know, I guess you don't have to be too
23 smart to be afraid of nuclear power, and it don't mean
24 you are dumb neither.

25 (Applause.)

1 MS. CARLUCCI: We all know what happened at
2 Three Mile Island, and that is not the only thing I want
3 to say. I read an article by the Hunterdon Alliance
4 that said that they were going to take water out of the
5 Delaware River and they are going to send it over to the
6 Limerick Nuclear Power Plant. Well, that got me real
7 upset. I mean I want to illustrate something to you.

8 If I drink a cup of water, it goes down into
9 my system and my organs process that food that I eat and
10 that water and it sends it on out and that water helps
11 flush out any toxins that build up in my body, too.

12 Now my body is like the Delaware River, and it
13 is only common sense that the more water you take out of
14 that river with the same amount of junk going into it as
15 it goes on down, the worse that water is going to be and
16 the more polluted that river is going to be by the time
17 it gets down in the intestines down around Philadelphia.

18 (Laughter.)

19 MS. CARLUCCI: And I shudder to think what
20 those people are going to be drinking once we take more
21 water out.

22 Now I think as a mother I know that the key to
23 good health is the proper elimination of waste. How is
24 the Delaware River going to eliminate its waste? What
25 are the people down there going to be drinking? What

1 are my children going to be drinking, water or shi-- , I
2 mean waste.

3 (Laughter.)

4 MS. CARLUCCI: Water or waste, what are they
5 going to be drinking? I mean are my children going to
6 have a world to live in at all?

7 That is what I came to say and I hope you
8 listen well. I hope you heard what I had to say because
9 I don't want to have to come back here again. I got a
10 lot of things to worry about. I have got the farm and
11 raising a family and I hope that we never have to meet
12 again.

13 Thank you.

14 (Applause.)

15 MR. MOODY: Thank you.

16 Jonathan D. Scott.

17 PRESENTATION OF JONATHAN D. SCOTT

18 MR. SCOTT: I have the dubious honor of
19 following that beautiful speech.

20 My name is Jonathan Scott. I live in
21 Plumstead Township, Bucks County, approximately one-half
22 mile from the Bradshaw Reservoir.

23 This reservoir is a major part of the
24 proposed, and I underline with many lines "proposed"
25 Point Pleasant water diversion. As a property owner in

1 this area I am very concerned about the following
2 effects of this project.

3 No. 1, the pumping of millions of gallons of
4 possibly toxic river water daily into our pristine area,
5 and if you don't believe it is pristine come over and
6 see.

7 No. 2, the chance of pipe failure, dam failure
8 or human failure which can allow the seepage of millions
9 of gallons of this water into the soil and contaminate
10 our wells, not to mention poisoning our two local
11 streams, Gettes Run and the north branch of the
12 Neshaminy.

13 No. 2, it is my understanding that there have
14 been no definitive analyses of soil permeability in the
15 Bradshaw area.

16 No. 4, that there is some question to the
17 stability of this above-ground reservoir because of the
18 constant drawing down and filling which will take place
19 on a daily basis.

20 This project will affect the property values
21 in the vicinity. Just in the past few months many
22 adjacent properties have been put up for sale.
23 Apparently these residents realize that they won't be
24 able to sell their properties if and when construction
25 starts. We are not used to bulldozers.

1 It is for these reasons and others that I,
2 along with 1,000 other Plumstead Township residents
3 signed this petition last September. I would like to
4 point out that our petition drive took only four days to
5 reach our goal of 1,000 signatures in our rural township
6 of only 2,000-plus voting age people.

7 The petition reads as following:

8 "Petition - To the Plumstead Township
9 Supervisors: We, the undersigned, residents of
10 Plumstead Township, Pennsylvania, oppose the proposed
11 Point Pleasant Pumping Station and its construction. We
12 urge our township officials to deny any proposal to
13 alter the zoning ordinance, or to issue any variance
14 that would permit the construction of the Point Pleasant
15 pumping station."

16 I would like to, if I may, enter this petition
17 in the record.

18 That is all I have to say.

19 (The petition submitted for the record
20 follows:)

21

22

23

24

25

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|----------------------------------|---|
| 1. <i>Journe Kuhner</i> | Viehweger ^{T. Hickson Hill} Box 326 Pt Pleasant Pa 18950 |
| 2. <i>Charles Lisch</i> | ^{Wahl} Rt. 1 Box 102 Pipersville Pa 18947 |
| 3. <i>Mr & Mrs Jas Smith</i> | Rt. 1 Box 100 Pipersville Pa 18947 |
| 4. <i>Carol B. Billman</i> | Box 98 Groveland Rd. Pipersville, Pa. |
| 5. <i>W B Gibson</i> | Box 100, Gardenville Pa 18926 |
| 6. <i>Walter May</i> | ^{BRADSHAW ROAD} General Delivery Gardenville, Pa. 18926 |
| 7. <i>Tom Steggs</i> | Box 74, Gardenville Pa. 18926 |
| 8. <i>Eleanor Lear</i> | Box 178 Gardenville, Pa 18926 |
| 9. <i>W Morwald</i> | Box 101 Gardenville, Pa 18926 |
| 10. <i>W Morwald</i> | Box 101 " " " |
| 11. <i>Nal Jones</i> | P.O. Box 35 Gardenville Pa. 18920 |
| 12. <i>Ellie Jones</i> | PO Box Gardenville Pa 18926 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. Lyle Samuels Box 1, Gardenville, Pa 18926
- 14. Lyle Samuels Po Box 1, Gardenville, Pa 18926
- 15. Lynn May Bradshaw Rd, Gardenville, Pa 18926
- 16. Lyle Samuels Po Box 294 state park rd. Pt. Pleasant 18950
- 17. Debra Koch Po Box 294 State Park Rd. Pt. Pleasant 18950
- 18. E. Gallek Box 54 - State Park R. Pt. Pleasant 18950
- 19. E. Gallek Box 709E State PK Rd. Pt. Pleasant 18950
- 20. Jack Keuburn 3209 Glenrose Ave. Bristol Pa
- 21. State Park Road, Pt. Pleasant
- 22. Elsie Polceno, State Park Rd, Pt. Pleasant
- 23. Meredith E Allen Po Box 171 Point Pleasant Pa 18950
- 24. Joseph H. Comber Point Pleasant. Pa. 18950
- 25. Orma A. Comber Pt. Pleasant, Pa. (Tobacco Hill Rd.)
- 26. Marjorie Comarmon 323 - Pa 18950
- 27. Shelley Kowitz 2nd Spring Farm Pt. Pleasant, Pa. 18947
- 28. Ruth Scales Groveland Rd. Pipersville
- 29. Arthur Shull Groveland A.D. Pipersville Pa
- 30.

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

13

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. <i>Andreas Kircher</i>	LANDISVILLE RD. DOYLESTOWN, PA.
2. <i>Joseph Breich</i>	LANDISVILLE Rd DOYLESTOWN RD. 2 PA.
3. <i>Louise Breich</i>	Landisville Rd. Doylestown RD 2 PA
4. <i>James R. Shambaugh</i>	LANDISVILLE Rd DOYLESTOWN Rd 2 PA
5. <i>Mary Jane Shambaugh</i>	" " "
6. <i>Tony Lambert</i>	Landisville Rd Doylestown RD 2 PA.
7. <i>Dan Sahr</i>	Landisville ^{David Sahraba 348-1326} Doylestown RD 2 PA
8. <i>Paul Frankle</i>	Landisville Rd Doylestown RD 2 PA
9. <i>Pauline D. Franklin</i>	" " " "
10. <i>Ann L. Perry</i>	" " " "
11. <i>Clyde L. Perry</i>	" " " "
12. <i>Lane Reno</i>	" " " "
13. <i>Mike Reno</i>	" " " "

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. Edward Child EDWARD CHILD TOHICKON HILL RD. POINT PLEASANT
- 14. Gertrude Child Gertrude Child Tohickon Hill Rd POINT PLEASANT PA.
- 15. Eugene Child Eugene Child " " "
- 16. Frieda Hinterleitner " "
- 17. T.J. TANTILLO T.J. TANTILLO TOHICKON HILL RD. PT. PLEASANT, PA.
- 18. Mary J. TANTILLO MARY J. TANTILLO TOHICKON HILL RD. PT. PLEASANT, PA.
- 19. ALBI FETZER ALBI FETZER TOHICKON HILL RD PT PLEASANT PA.
- 20. BROOKE M FETZER BROOKE M FETZER Tohickon Hill Rd pt pleasant
- 21. ~~Card~~ Box #18, POINT PLEASANT, PA. 18950 ✓
- 22. BARBARA POSTEL BARBARA POSTEL BOX 18, PT. PLEASANT, PA. ✓
- 23. VAUGHN & DONNA STITES VAUGHN & DONNA STITES, PT. PLEASANT, PA. ✓
- 24. GARY WHITE Box 261 Pt. Pleasant Pa. 18950
- 25. DIANE WHITE " " " " ✓
- 26. Box 387 Pt. Pleasant Pa 18950 ✓
- 27. Richard + Donna Kelly Box 172 Pt Pleasant ✓
- 28. Walter Schindler Box 137 Pt Pleasant
- 29. Edythe V. Matt Box 326 Pt. Pleasant, Pa. 18950
- 30. John Mito " " " " ✓

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION..

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. W. KABALA	PT PLEASANT PK RD / NEW HOPE PA 18939
2. J. McCreary	OLD EASTON RD. DANBORD, PA. 18916
3. Mary Hrygle	Twin Hills Rd Gardenville, Pa 18926
4. Claude Pickering	Rt 413. Gardenville Pa 18926
5. Ted Pickering	Rt 413 Gardenville Pa 18926
6. Robert Beaton	Long Lane Rd 2 Doylestown Pa 18901
7. Jim Duncan	116 STRAWBERRY CIRCLE LANGHORNE PA
8. Elsie Toleno	State Park Rd. Pt Pleasant
9. Samuel B Toleno	State Park Road Pt Pleasant
10. Frank	245 Aqueduct Rd New Hope Pa 18938
11. Elsie H. Davis	412 Madison National Crown Property on Ferry Rd
12. R. Szymon	Rt 2 near Co Upper Bl Ebby

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. Ernestine Wohinger	Potters Lane Pipersville, Rd. 2
2. Chester Wohinger	Potters Lane, Pipersville Rd. 2
3. Mr. Joe Stump	Stump Rd + Johnon Hill, Pipersville, Pa
4. Mary C. Lehmann	" " " "
5. C. A.	Stump + Johnon Hill Rd Pipersville
6. Jane & Chen	" " " "
7. E. D. Mare	Stump Rd. Pipersville, Pa. ⁶⁻⁸⁵⁶⁹
8. S. Keble	Stump Rd. Pipersville, Pa.
9. Mary Burgh	Johnon Hill Rd Pipersville Pa
10. F. A. Funt	TOLLGATE RD, BEAVERSVILLE, PA.
11. R. Nemethy	E. NEMETHY, PT. PLEASANT
12. Charles Lent	TOLLGATE RD. PIPERSVILLE PA

PETITION

12

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. Ron Christman	Ron Christman P.O. Box 313 Pt. Pleasant
2. Kathy Walters	Kathy Walters Bx 195 Rodgers Rd Pipersville Pa
3. Richard Reshetar	Richard Reshetar P.O. Box 283 Pt. Pleasant, Pa
4. Dave Fox	DAVE FOX P.O. Box 283 Pt. Pleasant, Pa
5. Shad Lane	Shad Lane R.D. Pipersville, Pa.
6. Shad Lane	Shad Lane Pipersville, Pa
7. Ann Moyer	Ann Moyer P.O. Shad Lane rd Pipersville
8. Jeanne Bortmas	JEANNE BORTMAS SHAD LANE PIPERSVILLE
9. Larry Moyer	LARRY MOYER SHAD LANE PIPERSVILLE PA.
10. Barry Claus	7 Shad Lane Pipersville Pa
11. Paul Claus	" " " "
12. Harry Bramhall	Point Pleasant, Pa.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- ✓ 13. Richard Furst Richard Furst Telgate Rd. Pipersville PA. 18947
- ✓ 14. William Helver Bill Helver GROVELAND RD PIPERSVILLE Pa. 18947
- 15. Howard Reed HOWARD REED RD#1 PIPERSVILLE PA 18947
- 16. Ingrid Reed INGRID REED RD#1 PIPERSVILLE, PA 18947
- 17. Alma Wickham Alma Wickham R. 21 Pipersville Pa. 18947
- 18. John Core Bx 202 Rd 1 Pipersville Pa "
 John Core
- 19. Arnold Beeler Smith corner Pipersville Pa
- 20. Beeler " " " "
- 21. Patsy Ruthking Patsy Ruthking Covered Be Rd Pipersville. Pa
- 22. John King " " " "
- 23. Frank Holler FRANK HOLLER Stump Rd 6-8314 PIPERSVILLE P.A.
- 24. Iva Holler IVA HOLLER " " " "
- ✓ 25. Betty Lindquist \$ Stump Rd. Pipersville Pa.
- 26. Lisa Sanders Stump Road, Pipersville, Pa.
- 27. R.J. Hutcheon STUMP ROAD, PIPERSVILLE, PA
- 28. R.J. Hutcheon " " " " 18947-
- ✓ 29. R.J. Gager Jacq " + Schlentz Hill " " "
- ✓ 30. J. Scholten Schlentz Hill Rd Pipersville

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

12

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SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>Burtice Evans</i>	Pt Pleasant Pk Gardenville Pa
2. <i>John Allison</i>	Pt Pleasant Rk Gardenville Pa
3. <i>Susan Johnson</i>	Pt Pleasant Pk Gardenville Pa
4. <i>Ronald Thomas</i>	Pt Pleasant Rk Gardenville Pa
5. <i>J. Scott Bruns</i>	" "
6. <i>J. H. R.</i>	" "
7. <i>Margaret Bruns</i>	" "
8. <i>Arthur Bruns</i>	" "
9. <i>Arthur Dillford</i>	Tonickon Hill Rd. Point Pleasant, Pa.
10. <i>Earl Dillford</i>	" " " " " "
11. <i>A. M. Krence</i>	Pt Pleasant, Pa.
12. <i>A. Winterstein</i>	RD1, Box 206, New Hope, 18938

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

3

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|---------------------------|--|
| 1. <i>John Schiff</i> | Groveland & Tollgate Rds |
| 2. <i>John Palmer</i> | Groveland Rd Pipersville |
| 3. <i>Cheri Bromberg</i> | Groveland Rd. Pipersville |
| 4. <i>Linda Hornick</i> | Wisner Rd. ⁷⁻⁸⁵¹⁹ Pipersville |
| 5. <i>Al Dunbar</i> | Wisner Rd Pipersville |
| 6. <i>Greg Dunbar</i> | " " " |
| 7. <i>Lynann Dunbar</i> | Wisner Rd. Pipersville, |
| 8. <i>Nox Newman</i> | Groveland Rd Pipersville, PA. |
| 9. <i>Colan Kulerster</i> | RD 1 Box 206 New Hope Pa |
| 10. <i>[Signature]</i> | Box A 204 Point Pleasant Pa. New Hope Pa. 18938
McDade 297-8483 |
| 11. <i>[Signature]</i> | Pt Pleasant PK + Frazer Rd
7-8502 |
| 12. <i>Laura C. Myers</i> | Pt Pleasant PK RD 1 BOX 2076 New Hope 18938 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

3.	Carol Rogers	223A Stump Rd. Pipersville Pa	18947
4.	Carol Rogers	" " " " "	" "
5.	David Page	Schultz Hill Rd. PIPERSVILLE PA	18947
16.	Loanne Page	" "	" "
17.	Charles Henry Dorothy Henry	Schultz Hill Rd Pipersville Pa	18947
18.	Alice Miller	Box 240 Pipersville Pa	18947
19.	Phil Klein	Box 240 Pipersville, Pa	18947
20.	Corinne Furst	Corinne Furst Pipersville	
21.	Diana Foster	DIANA FOSTER Pipersville	18947
22.	Wm. Kaprolat	RD1 PIPERVILLE PA.	
23.	Mildred Kaprolat	MILDRED KAPROLAT PIPERSVILLE. PA.	
24.	Edward A. Furst, Jr.	RD #1, Tollgate Rd Pipersville, Pa	18947
25.	Mary Kruger	MARY KRUGER, Pipersville, Pa.	18947
26.	Raymond C. Kruger	Raymond C. Kruger Pipersville, Pa.	18947
27.	Crossa Wintress	Point Pleasant, Pa.	18947
28.	James Shertz	Plumsteadville Pa	18947
29.			
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PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|-------------------------------------|---|
| 1. <i>Maia Salovey</i> | Old Durham Rd ⁷⁶⁶⁻⁸⁰⁶² PEPPERSVILLE PA 18947
<i>Obanion</i> |
| 2. <i>Robert D. Warner</i> | Box 95 Old Durham Rd. Pepperville, Pa. 18947
<i>60352</i> |
| 3. <i>Robert Van Antwerp</i> | Box #194 Old Durham P. D. Pepperville, Pa. |
| 4. <i>Richard D. ...</i> | Box 94 Old Durham Rd Pepperville, Pa. |
| 5. <i>James D. ...</i> | Old Bethlehem Rd. Parkside Pa. 18944 |
| 6. <i>Mrs Mrs Clayton Detweiler</i> | Pepperville, RD Pa 18947 |
| 7. <i>Paul A. ...</i> | 108 N. Bennet Ave. Parkside, Pa 18944 |
| 8. <i>Mildred Templeton</i> | Box 71 Gardenville Pa. 18926 |
| 9. <i>Mary Templeton</i> | Box 71 Gardenville PA. 18926 |
| 10. <i>Jose ...</i> | Box 128 Donkora Pa |
| 11. <i>Amy ...</i> | P.O. Box ³¹⁸⁻⁸⁴⁵⁶ Donkora Pa. 18916 |
| 12. <i>Helene ...</i> | " |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. William R. Kutt Curly Hill Rd. Vaylertown Pa. 18901

14. Mark Brunner STUMP RD. PIPERSVILLE, PA. 18947

15. Judie Brunner STUMP RD. PIPERSVILLE, PA. 18947

16. Belle Kepner STUMP JUMSER PIPERSVILLE 18947

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PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>Walt Kozypnicki</i>	235 STUMP RD WALTER Kozypnicki
2. <i>Walt Kozypnicki</i>	235 Stump Rd Pipersville, PA. 18947
3.	
4.	
5.	
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12.	

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *H. Mittelstedt* HARRY M. MITTELSTEDT Box 59 Plumsteadville, Pa

14. *Don Thomas* DONALD B. THOMAS Box 448 Plumsteadville, Pa.

15. *Sharon Thomas* Sharon Thomas Box 448, Plumsteadville, Pa

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SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. Norman J. Bramhall. Rt Pleasant
14. Filde Philipp Tolichou Mill Rd. Pipersville
15. "Janey" M. Wrogi SAME AS ABOVE RD 1 BOX 201 PIPERSVILLE, PA
16. Judy Euston Judy ROSKIN RD 1 PIPERSVILLE
17. Jean Walberg JV Volkering RD 1 Box 201 Pipersville
18. Jack More Kings Island, Pt. Pleasant, Pa
19. Bradford More Kings Island Pt Pleasant Pa
20. Adam Krisko Box 155 Danboro, Pa.
21. May Krisko Box 155 Danboro, Pa 18916
22. "Kwik" BOX 278 Danboro, Pa 18916
23. Hulak Box 132 Danboro Pa 18916
24. Henry Hussey Danboro Pa 18916
25. Karen Greb Danboro, Pa 18916
26. Barbara Greb Danboro, Pa. 18916
27. Parais Knecht Danboro Pa. 18916
28. Richard Long Danboro Pa 18916
29. Jew Long Danboro Pa 18916
30. Brenda Long Danboro, PA 18916

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. *P. Leishman* P. Leishman - RD4 Doylestown Pa 18901
- 14. *R. Linson* R. LINSON FB4 DOYLESTON PA 18901
- 15. *Wm W. Neusta* old Easton Road RD#4 Doylestown, Pa. 18901
- 16. *Wm J. Donovan* R.D.4 Doylestown Pa
- 17. *Mac Roberts* Sweet Hill Rd RTH Doylestown Pa 18901
- 18. *Eric Dieb* Pablik Hill Rd. Doylestown Pa. 18901
- 19. *Janet Logan* Box 30 Danboro Pa - 18916
- 20. *Sarah Logan* Box 30 Danboro Pa - 18916
- 21. *John Logan* ^{4th} Box 30 Danboro Pa 18916
- 22. *Jerry Logan* Box 30 Danboro Pa. 18916
- 23. *John B Logan* 3rd Box 30 Danboro Pa 18916
- 24. *John B Logan Jr* Box 30 Danboro Pa 18916
- 25. *Ken Schield* Box 35 Danboro PA 18916
- 26. *L. Lee* Box 416 Danboro Pa 18916
- 27. *Ann Lee* Box 416 Danboro, Pa. 18916
- 28. *Dana Smith* RD#5 Doylestown Pt. Pleasant Pa. 18914
- 29. *Judith Holman* RD#2 Doylestown, 18901
- 30. *Andrew A. App* BOX 213 DANBORO PA. 18916

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|---------------------------|---|
| 3. Kimberly Alps | Box 213, Danboro, Pa. 18916 |
| Julian Eubank | JULIAN EUBANK P.O. BOX 112
GARDENVILLE, PENNA. 18926 |
| Annette Masterson | ANNETTE MASTERSON
PO Box 112 Gardenville PA 18926 |
| 16. Marguerite P. Nichols | Marguerite P. Nichols - Box 88 - Danboro, Pa - 18916 - |
| 17. Daniel S. Nichols | Daniel S Nichols Box 88 Danboro Pa |
| 18. Diane Cole Ahl | Diane Cole Ahl Point Pleasant Pike Doylestown, PA 18901 |
| 19. Kenneth E. Ahl | Kenneth E AHL, Point Pleasant Pike, Doylestown Pa 18901 |
| 20. F. J. Rarig | F. J. RARIG, POINT PLEASANT PIKE, FOXESTOWN, PA 18901 |
| 21. " " " " | " " " " " " " |
| 22. J. Geiger | J. R. Geiger Pt. Pleasant Pike Doylestown, Pa. |
| 23. E. Geiger | E. Geiger Pt. Pleasant Pike Doylestown, Pa. |
| 24. P. Buono | P. Buono Pt. Pleasant Pike Doylestown, PA |
| 25. A. Buono | A. Buono Pt. Pleasant Pike Doylestown PA |
| 26. G. Chittick | G. Chittick Pt. Pleasant Pike Doylestown Pa. |
| 27. Robert Chittick | Robert Chittick Pt. Pleasant Pike Doylestown Pa. |
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| 29. | |
| 30. | |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. Mary B. Myers Rt. 90. near Pike New Hope
14. Pauline May R. D. 17th New Hope
15. Raymond W. Hunter Box 178 Gardenville Pa.
16. Ella Mae Myers Gardenville, Pa 18926
17. Louis G. Darling Gardenville Pa. 18901
18. Ellen C. Rewalt Gardenville Pa 18901
19. Chestnut Cox Gardenville Pa. 18926
20. Harris J. Fisher Gardenville Pa 18926 Harris Fishkin
21. Tom [unclear] Gardenville Pa 18926
22. Joe Swigart Candenville Pa 18926
23. Joseph Birkong Gardenville Pa. 18901
24. John J. Birkong " " 18901
25. Man Alexander " " 18926
26. Dom Sheringer Gardenville, Pa 18926
27. Wendy Sabath Candenville, Pa
28. Florence Mill Gardenville. Pa 18926
29. Mary E. Gabe Gardenville Pa, 18926.
30. Claire Brown St. Pleasant Pk. Gardenville, Pa. 18926

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. Ruth Keller Gardenville, Pa. 18926
14. Michael Lawrence Box 106 GARDENVILLE PA. 18926
15. Pat Duke R 319 Gardenville PA 18926-0319
16. Bob Harris Apple Butter Rd. PERKASIE
17. Jonathan Davenport Pt. Pleasant Pike - Doylestown Pa. 18901
18. Mary Davenport Pt. Pleasant Pk - Doylestown Pa. 18901
19. JONATHAN DAVENPORT " " " " " "
20. Betty Schott Gardenville Pa 18926
21. Grace Detweiler Gardenville Pa. 18926-0070
22. A. Horace Mickner Gardenville Pa 18926
23. Roseella Michener Gardenville pa 18926
24. Anne Bullock Anne Bullock
Point Pleasant Pike, Gardenville Pa. 18926
M.S. + M.S.
25. Grover Cranes Pt. Pleasant Pike Gardenville
26. Donna Brubaker Pt. Pleasant Pike Doylestown 18901
27. Linda McElhinney Stump Road Pipersville Pa 18947
28. Miriam Morgan Curly Hill Rd. Doylestown R.D. Pa
29. Lutz A. Giger Curly Hill Rd. R.D.#5 Doylestown Pa. 18901
30. John A. Giger Curly Hill Rd. R.D.#5 Doylestown Pa. 18901

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|----------------------|--------------------------------------|
| 1. Margaret Stein | Margaret Stein Piperaville Pa. |
| 2. Kathleen Mangle | Box 14 Pine Hill Farm Piperaville PA |
| 3. Ray Smith | " " |
| 4. Debra Hawk | Pt. Pleasant Pike Gardenville |
| 5. Bonnie Mosiondz | Pt. Pleasant Pike Gardenville |
| 6. PETER MOSIUNDZ | Pt. Pleasant Pike Gardenville |
| 7. Victor M. Kinski | Pt. Pleasant Pike Gardenville |
| 8. Stella S. Kinski | Pt. Pleasant Pike Gardenville, Pa. |
| 9. Kathy Heekin | Pt. Pleasant PK. Gardenville |
| 10. Frank Benjamin | PT PLEASANT PK PA. |
| 11. Joseph J. Jelenc | Box 133 Gardenville, Pa 18926 |
| 12. Paul Lawrence | Box 100 Gardenville, Pa 18926 |

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. E. Cardelli	E. CARDELLI P.O. Box 336 Plumsteadville Pa.
2. H. Erwin	H. Erwin P.O. Box 155 " "
J. Ferris	J. FERRIS P.O. Box 514 " "
J. Reger	J. Reger P.O. Box 514 " "
D.J. Boyle	D.J. Boyle P.O. Box 544 " "
Jane Roman	JANE ROMAN Plumsteadville, Pa.
Joseph Roman	JOSEPH ROMAN PLUMSTEADVILLE, PA
Kevin Labs.	Kevin Labs. Plumsteadville Pa.
Brocke Labs	BROCKE LABS Plumsteadville Pa.
Vicki Schandel	Vicki Schandel Plumsteadville PA.
Darwo Torres	DARWO TORRES Plumsteadville Pa.
N. Mittelstedt	Box 59 PLUMSTEADVILLE, PA.

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. Eleanore Wilhelm Bergstrom Rd. Doylestown Pa

2. M. Bethke " "

3. Arlene Baird ^{RD. 4} Burnt House Hill, Doylestown Pa

4. Louise Sort ^{RD 4} Burnt House Hill, Doylestown Pa

5. Lillian Stevens Burnt House Hill Rd. Doylestown Pa

6. [Signature]

7. Herman E. Heyblum " " PO Box 34 Danboro Pa. 18916

8. Walda Heyblum Burnt House Hill Rd

9. Mrs. L. H. Johnson Burnt House Hill Rd, Danboro Pa 18916

10. Robert Johnson " " " " " "

11. Mrs. L. H. Johnson Rd. Box 203 Piperstown Pa. 18947

12.

SIGNATURE NAME & ADDRESS (PLEASE PRINT)

13. Thomas Halliday R D 1 Pipersville Pa. 18947

14. Thomas Thomas R D 1, Box 27-A, Stump Co, Pipersville Pa. 18947

15. John Thomas R D 1 Box 27-A Stump Co, Pipersville Pa. 18947

16. John Thomas R D 1 Stump Co, Pipersville Pa. 18947

17. [Signature]

18. James Abner Box 25 Pipersville Pa. 18947

19. Henry Wright Pipersville Pa. R D 4 Stump Co

20. Miam Thought

21. Zina Burns Buena Pipersville Pa. Pipersville Pa. 18947

22. Judy Dickman Pipersville Pa. R D 4

23. George Kelly Pipersville Pa. R D 4, Pipersville, Pa. 18947

24. Mrs. Bernice Dickson Pipersville Pa. R D 4

25. A D Ann Perry Pipersville Pa. R D 4

26. Frank Post Pipersville Pa. R D 4 Stump Co

27. Frank Post Pipersville Pa. R D 4 Stump Co

28. Mrs. M. Pipersville Pa. R D 4 Stump Co

29. R. C. Pipersville Pa. Pipersville Pa. 18947

30. [Signature]

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *Mrs H. Sharp* Helen Sharp - R.D. 5 Gayman Rd. Doylestown, Pa.

14. *Lem C. Sharp* LEON C. SHARP - R.D. 5 GAYMAN RD. DOYLESTOWN, PA

15. *Stanley H. Bickel* STANLEY H. BICKEL RD 5 GAYMAN RD DOYLESTOWN PA

16. *Esther I. Bickel* ESTHER I. BICKEL RD 5 GAYMAN RD. DOYLESTOWN, Pa.

17. *Cilda M. Milnor* CRILDA M MILNOR RD 5 GAYMAN RD DOYLESTOWN PA

18. *John J. Milnor* John J Milnor RD 5 Gayman Road Doylestown

19. *James D. Fraser* JAMES D. FRASER, Box 70, Danboro, PA 18916

20. *Ellen M. Fraser* Ellen M. Fraser, Box 70, Danboro, Pa. 18916

21. *Wendy G. Barber* WENDY G BARBER RD #5, Doylestown Pa 18901

22. *Robert G. Barber* Robert G. Barber RD #5 Doylestown, Pa 18901

23. *Betty Ann Mahler* Betty Ann Mahler, Box 76, Danboro, Pa. 18916

24. *Robert A. Mahler* Robert A. Mahler, Box 76, Danboro Pa. 18916

25. *Carin Froehlich* Carin Froehlich RD # 5 Doylestown Pa 18901

26. *Dieterich E. Froehlich* DIETRICH E FROEHLICH RD #5 Doylestown, PA 18901

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PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. Wendy Magargal	Plumsteadville Wendy Magargal Box 113 Meetinghouse Rd. VALLEY PARK RD
2. Dan Bender	DAN BENDER RD #5 POYLESTOWN, PA 18901
3. Kathy Han	Box 1381 1/2 Pipersville PA 18947
4. E Galdo	Schlentz Hill Rd Pipersville Pa 18947
5. J. Kleckner	Schlentz Hill Rd Pipersville Pa 18947
6. K. Froman	Schlentz Hill Rd Pipersville 18947
7. H. D. Boyer	6 4 Pipersville 18947
8. R. D. Berger	" " " "
9. W. Fuller	Bx 235 Pt Pleasant Pa 18950
10. Mike Kleint	Bx 33 Point Pleasant Pa 18950
11. Barbara Kleint	Bx 33 POINT PLEASANT, PA 18950
12. AD. Magargal	Pt Pleasant Pa 18950

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *Donald Cooney* Rds Valley park Rd.

14. *Frank McManis* Redgum We

15. *John Smith* RD#10 Doylestown Pa

16. *Wm Buchanan* Fort Swager Rd Pott Pleasant

17. *P. Kinder* Box 48, Danbury, PA

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PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. C. Anderson	Box 88, Point Pleasant, Pa 18950
2. J. Anderson	Swagger Rd Pt. Pleasant Pa 18950
3. M. Anderson	" " " " " "
J. B. Kemble	Ferry Rd., Pt. Pleasant, Pa. —
5. Inya Sully-Lynn	Ferry Rd. Pt. Pleasant Pa. —
6. A.B. [unclear]	J. Christy Ferry Rd Pt. Pleasant, Pa ✓
7. M.S. deVries	59 Watching Ave, Montclair, Nj 07043)
8. Kay Baker	Live Hood, Pt. Pleasant Pa. 18950
9. M. Karson	Box 155 Point Pleasant Pa 18950 —
10. Jo Helper	Box 155 Pt Pleasant Pa 18950 —
Hatken & Jessica Pearson	L L L
Chris & Wane	
12. Jilly Gould	Curly Hill Rd R. D. 5 Doylestown Pa 18901

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. William J. Halls Box 313 Wismer Gardenville Pa
- 14. Elizabeth Wells Prof 313 Wismer Rd Gardenville Pa
GARLICK 7-8568
- 15. S. H. Garlick Box 44 Wismer Rd. GARDENVILLE, PA
- 16. R. Man. BOX 99 Wismer Rd. Pleasant Pa
- 17. C. Wabli Wismer Rd Pipersville PA
- 18. J. R. A. P.O. Box 176 CARVERSVILLE PA
- 19. ~~John~~
- 20. Mary Kulla Box 124 Wismer Rd Pipersville, Pa.
- 21. Mary Saylor Box 123 Wismer Rd, Pipersville, Pa. 18947
- 22. H. Nelson Box 123b Wismer Rd, Pipersville, Pa. 18947
- 23. Robin Camborn RD#1 Box 213 New Hope Pa, 18938
- 24. School ~~Rebecca~~ RD#1 Box 213 New Hope Pa. 18938.
- 25. Betty Hoag Box 144 Pipersville, Pa. 18947
- 26.
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PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

12

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>Gloria Peterson</i>	GLORIA PETERSON Box 5, Gardenville, Pa 18926
2. <i>Karen Stough</i>	KAREN STOUGH Box 36 Gardenville, Pa 18926
3. <i>Wendy Bender</i>	WENDY BENDER VALLEY PARK RD RD 5 DOYLESTOWN
4. <i>Kenneth Willt</i>	Pt. Pleasant Pt. Gardenville, Pa. 18924
5. <i>Robert Ward</i>	Upper Plumville Church Rd, Gardenville
6. <i>Jeanie Bauman</i>	JEANNIE BAUMAN R.D. 1, Box 213 NEW Hope, PA 18938
7. <i>Robert Bauman</i>	ROBERT BAUMAN " " " "
8. <i>Rob St</i>	VS ROBERT ST Box 404 Point Pleasant, PA
9. <i>Luisa Kagle</i>	Biddford Circle, Doylestown, PA
10. <i>Nancy R. Tull</i>	HARRY R. TULL - FERRY RD. R.D. #2 DOYLESTOWN, PA
11. <i>J. Wissem</i>	Pt Pleasant, Pa. 18950
12. <i>Luc Foley</i>	Ferry Rd. Point Pleasant

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. K. Furdit	RD#1 Box 146-A Pipersville, PA 18947
2. J.H. Tennett Sr	Geddes Run Farm - Wisner Rd Box 147 Pipersville Pa 18947
3. Sheila G. Follis	210 Stump Rd Pipersville Pa 18947
4. M. J. Follis	210 Stump Rd Pipersville Pa 18947
5. J. M. Follis	P.O. Box 463 Stump Rd Pipersville Pa 18947
6. [Signature]	Alexne RD1 Box 25 Pipersville Pa 18947
7. Suzanne Joyce	145 Wisner Rd Pipersville Pa 18947
8. [Signature]	Conoverville Pa
9. J. Eckert	Stump Road, Pipersville, Pa. 18947
10. Mary W. Eckert	Stump Road, Pipersville 18947
11. M. Hepp	RD1 Box 25A - Pipersville Pa
12.	

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>Patricia Rivell</i>	PATRICIA J. RIVELL RIVER & FERRY RDS PT. PLEASANT
2. <i>Steve Hood</i>	STEVE HOOD FERRY & RIVER RD, PT. PLEASANT
3. <i>Josephine Hofertka</i>	JOSEPHINE HOFERTKA RIVER ROAD POINT PLEASANT, PA.
4. <i>Caitlin Massie</i>	Caitlin Massie P.O. 273 Pt. Pleasant
5. <i>Doug Fandorf</i>	Doug Fandorf " " "
6. <i>Jose R Rivera</i>	Jose R Rivera River Road Point PLEASANT C.O. Hill
7. <i>C.O. Hill</i>	PT. PLEASANT, PA.
8. <i>Dan Fitzgerald</i>	Dan Fitzgerald C.O. Hill Rd
9. <i>Chris Glotau</i>	Glouster Rd. Pt. Pleasant
10.	
11.	
12.	

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *Mrs. Alice* *Nichols* Abbott, Forest Grove, Pa 18922

14. *Adeline Winterstein* ^{Box 206} ~~New Hope~~ 18938

15. *J. Wood* Pt. Pleasant Pk. Doyle, 18901

16. *J. Merkel* Box 180 RD#1 New Hope Pa

17. *J. Tolson* Box 138 RD#2 Pipersville, Pa.

18. *Sue Wenger* Box 224 Pt. Pleasant, Pa

19. *Barbara May*

20. *M. Hou* Odell Pt Pleas. Pike Danboro

21. *Carol Joann* Buckingham PA)

22. *S. B. Jones* 5631 VICARS LN ROYCESTOWN, PA 18901

23. *J. Brown* Box 196 Mechanicsville Pa)

24. *Theresa Wright* Hendersonville, Pa 18926

25. *Stewart Montgomery* ^{P.O. Box 198} STEWART MONTGOMERY RD 1 NEW HOPE PA 18938

26. *Wendy Hirst* Pipersville, Pa 18927

27.

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29.

30.

PETITION

12

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|------------------------|--|
| 1. Judith B. Philbrick | JUDITH B. PHILBRICK, Box 93, CARVERSVILLE, PA
underwood |
| 2. Joseph Underwood | P.O. Box 177, Carversville
Sybel |
| 3. Elizabeth Sybel | P.O. Box 177, Carversville
PAT |
| 4. Pat Oberlander | R.D. #2, Doylestown, PA 18901 OBERLANDER
Sidelinker |
| 5. Donna L. Sidelinker | Donna L. Sidelinker Wisner Rd R.D. 2 Doylestown Pa 18901
Schwab |
| 6. Judith L. Schwab | RD #2 Wisner Rd, Doylestown Pa. 18901 Schwab |
| 7. Carl Schwab | RD #2 Wisner Rd Doylestown Pa 18901
Schwab |
| 8. Mary Sapp | RD #1 New Hope Pa 18938 |
| 9. Robert Miller | Box 12 Gardenville Pa 18926 |
| 10. Mrs. Robert Miller | Box 12 Gardenville Pa 18926 |
| 11. Mrs. Alice Horney | Box 215A New Hope Pa. 18938 |
| 12. Ernestik | Point Pleasant Pa 18950 |

PETITION

10

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>Graham Kinsman</i>	Box 357 RIVER ROAD, PT. PLEASANT ✓
2. <i>Michelle C. Kinsman</i>	MICHELLE C KINSMAN, Box 357 RIVER ROAD POINT PLEASANT
3. <i>E. C. Gallas</i>	E. C GALLAS Box 450 PT. PLEASANT, PA 18950
4. <i>Nesta M. Gallas</i>	NESTA M GALLAS Box 450 PT PLEASANT PA 18950
5. <i>Frank Plichta</i>	FRANK P LICHTA PT Pleasant Pa 18950 ✓
6. <i>Prothy & Jerry Winston</i>	River Rd. - Pt. Pleasant - Pa 18950
7. <i>Robert N. Swan</i>	P.O. Box # 434 Point Pleasant, Pa. 18950
8. <i>Virginia</i>	River Rd Pt. Pleasant Pa. 18950
9. <i>[Signature]</i>	" " " " " " ✓
10. <i>[Signature]</i>	" " " " " " ✓
11.	
12.	

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. Robert O. Reed Box 116 Danboro Pa 18916

14. Fred Grubers Box 312 Danboro Pa 18916

15. Harry Hesse 46 Cecil Street Danboro Pa 18916

16. Laura Hancock Box 121 Danboro Pa 18916

17. Al. Romig P.O. Box 225 Danboro Pa. 18916

18. Florence Hynd P.O. Box 211 Danboro Pa. 18916

19. Fred Jones PO Box 141 DANBORO Pa 18916

20. Annie Lida Box " " " "

21. EMMETT BROWN BOX 77 FOUNTAINVILLE PA 18923 0073

22. Arthur W. Mearns Box 371 Danboro 18916

23. F. L. G. G. G. Box 159 Danboro Pa 18916

24. Mrs. Giff 26 Cedar St Danboro Pa 18916

25. Mrs. M. G. G. 27 Cecil Street Danboro Pa 18916

26. Mrs. M. G. G. 25 Cedar St Danboro Pa 18916

27. Mrs. M. G. G. Brown P.O. Box 145 Danboro Pa 18916

28. M. J. G. G. Box 107 DANBORO PA,

29. J. P. G. G. JAY SALES Box 266 DANBORO PA 18916

30. Paul E. Brown Box 73 - Fountainville Pa 18923 0073

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP,
PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT
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WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT
PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. <i>Thomas</i>	PO Box 167 Danboro PA 18916
2. <i>Simon Franklin</i>	105 North Union St Danboro PA 18916
3. <i>Harry Shubert</i>	PO Box 86 Danboro PA 18916 PA
4. <i>William Shubert</i>	" " " " " "
5. <i>John J. ...</i>	PO Box 86 Danboro PA 18916
6. <i>Robert K. ...</i>	PO Box 394 Danboro PA 18916
7. <i>Robert ...</i>	PO Box 374 Danboro PA 18916
8. <i>Gene ...</i>	PO Box 374 Danboro PA 18916
9. <i>Billy ...</i>	PO Box 411 Danboro Pa 18916
10. <i>Harold ...</i>	PO Box 176 Danboro Pa 18916
11. <i>E. Bellotti</i>	PO Box 235 Danboro Pa 18916
12. <i>F. J. Bellotti</i>	PO Box 235 Danboro Pa 18916

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. *Mary M. Landes*
- 14. *Helen C. Cook Box 134 Danboro Pa 18916*
- 15. *Judy Dale Box 201 Danboro Pa 18916*
- 16. *Willie Jackson Box 283 Danboro Pa 18916*
- 17. *Bethie Thomas Box 57 Danboro Pa 18916*
- 18. *Leona Thomas " " " " " "*
- 19. *Leona Thomas Box 274 Danboro Pa 18916*
- 20. *Tom Hartman Box 109 Danboro Pa 18916*
- 21. *Wm. Foley Danboro Pa 18916*
- 22. *Howard C. Koch Jr. Box 104 Danboro Pa 18916*
- 23. *Frank Fisher Box 461 Danboro Pa 18916*
- 24. *Frank Fisher Box 197 Danboro Pa 18916*
- 25. *Frank Fisher Box 197 Danboro Pa 18916*
- 26. *Frank Fisher Danboro Pa 18916*
- 27. *Elizabeth Stohouse Danboro Pa 18916*
- 28. *Ed. Box 259 Danboro Pa # 18916*
- 29. *Ronald Bean Box 198 Danboro Pa 18916*
- 30. *Peterson Bean " "*

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP,
PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT
PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR
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THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT
WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT
PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|-------------------------|--|
| 1. <i>Phuong Le</i> | PHUONG LE PO BOX 93 DANBORO PA 18916 |
| 2. <i>Caru Hayes</i> | Caru Hayes po Box 66 Plumsteadville Pa 18916 |
| 3. <i>Willy Reah</i> | PO Box 354 Plumsteadville PA 18949 |
| 4. <i>Jim Evans</i> | P. Box 571 Danboro Pa 18916 |
| 5. <i>Stacy Cameron</i> | 108 N. Canton Rd. Danboro Pa 18916 |
| 6. <i>David Warner</i> | P.O. Box 356 Danboro Pa 18916 |
| 7. <i>Anna Cassidy</i> | PO BOX 97 DANBORO PA 18916 |
| 8. <i>Russell Smyth</i> | PO Box 62 DANBORO PA 18916 |
| 9. <i>Mitony Cass</i> | P. O BOX 34 Dan Boro Pa 18916 |
| 10. <i>PAMELA NIX</i> | PO BOX 34 DANBORO Pa 18916 |
| 11. <i>Standy Bury</i> | Box 184 Plumsteadville Pa 18949 |
| 12. <i>...</i> | ... |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

Ed M. Cornillon

D. CORNILLON - P.O. Box 156 - Pt Pleasant - Pa.

Ed Kolbe

P.O. Box 355 - Pt Pleasant - Pa. ED KOLBE

Ed Kolbe

P.O. Box 185, Pt. Pleasant, Pa. (RICHARD)

Gene Corrie

River Road. Pt Pleasant, Pa. 18950

Walter Williams

River Rd. Pt Pleasant, Pa 18950

Jana Naughton

Jana Naughton Box 215 Pt Pleasant Pa

Jannamaria Naughton

Jannamaria Naughton Box 215 Pt. Pleasant

Don Naughton

Don Naughton Pt Pleasant Pike Pt Pleasant Pa

Grace D. Scott

GRACE D. Scott, RD#1 Greeland Rd. Pipersville, PA.

Ed Morgan

ED. MORGAN RD#1 PT PLEASANT PK NEW HOPE PA 18938

Patrick Kennedy

Patrick Kennedy RD 1 Pt Pleasant PK New Hope PA 18938

Barbara E. Polonecky

Barbara E. Polonecky New Hope Pa. 18938
Pt Pleasant Pike RD 1 Box 212

William T. Chalmers

William T. Chalmers New Hope PA 18938

Albert Rosen

ALBERT ROSEN
Pt Pleasant Pike 1504 317 GARDENVIEW Pa.

Margery Rosen

Margery ROSEN Box 317
PT. PLEASANT PIKE, GARDENVILLE, PA

CONSTRUCTION OF THE POINT PLEASANT
PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

<i>Charles A. Schmeidler</i>	CHARLES A. SCHMEIDLER, PT PLEASANT PA
<i>W. Loren Finner</i>	BAR PAUMEN PT PLEASANT PA
<i>Leroy Firestone</i>	LEROY V FIRESTONE PT PLEASANT PA
<i>Oscar Liss</i>	Long Rd. PT Pleasant Pa. BOX 177 18950
<i>Paul H. Liss</i>	PLEASANT LISS BOX 49 PT. PLEASANT PA 18950
<i>Nancy L. Tomlinson</i>	NANCY L. TOMLINSON, FERRY RD PT. PLEASANT, PA. 18950
<i>John H. Hoff</i>	John H. Hoff St. Pleasant Pa 18950
<i>Lee R. Vahl</i>	LEE UNRVH catterly rd PT Pleasant
<i>John K. Wilson</i>	Box 34 Point Pleasant Pa
<i>Ray Weyner</i>	Box 173 Point Pleasant Pa
<i>J. Hill</i>	Point Pleasant Pa
<i>Tom Harris</i>	PT. Pleasant
<i>Terri Rickards</i>	Box 57 Fountainville PA 18923
<i>Joy Norn</i>	^{Jay Norn} Shoof Lane, Pikesville, Pa 18947
<i>John Carlsson</i>	Ferry Rd. Gardenville Pa 18924
<i>Marion Ambrose</i>	" " " " "
<i>Stella Demery</i>	Ferry Rd. Pikesville Pa 18935

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

Joseph Ruscio	RD #1 Box 186 FERRY RD	Pt. Pleasant Pa.
Barbara Ruscio	RD #1 Box 186 FERRY Rd.	Pt. Pleasant Pa.
John Ruscio	R.D. 1, Box 159 FERRY RD.	PT. PLEASANT, PA.
Gray Christy	Ferry Rd.	Pt. Pleasant Pa.
Luigi E. ...	Ferry Rd.	Pt. Pleasant, Pa.
Ruth N. ...	Ferry Road	Pt. Pleasant Pa.
David York	Ferry Rd.	Pt. Pleasant Pa.
Wendell ...	Ferry Rd.	Pt. Pleasant Pa.
Wendell ...	Swanson & Ferry Rd.	Pt. Pleasant Pa.
Wendell ...		18950
Wendell ...		18950
Wendell ...	Rock Pt.	PLEASANT PA - 18950
Wendell ...	River Road	Pt. Pleasant PA - 18950
Wendell ...	River Road	Pt. Pleasant PA - 18950

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
<i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
<i>[Signature]</i>	Pt Pleasant, Pa
2. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
3. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
4. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
5. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
6. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
7. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
8. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
9. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
10. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
11. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)
12. <i>[Signature]</i>	Box 172 (Pt Pleasant, Pa)

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 14. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 15. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 16. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 17. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 18. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 19. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 20. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 21. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 22. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 23. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 24. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 25. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 26. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 27. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 28. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 29. [Signature] Ferry Rd. RD#2 Doylestown Pa
- 30. [Signature] Ferry Rd. RD#2 Doylestown Pa

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. *[Signature]* Box 7 Cambria Pa

2. *[Signature]* Pt Pleasant Pa

3. *[Signature]* 216 1/2 Rd Rm New Hope Pa 18935

4. *[Signature]* Rt 10th New Hope Pa 18938

5. *[Signature]* Box 156 R.D.#1 New Hope Pa 18938

6. *[Signature]* Box 153 R.D.#1 New Hope Pa 18938

7. *[Signature]* T. H. H. Rd Pt Pleasant Pa 18950

8. *[Signature]* T. H. H. Rd Pt Pleasant Pa 18950

9. *[Signature]* T. H. H. Rd Pt Pleasant Pa 18950

10. *[Signature]* T. H. H. Rd Pt Pleasant Pa 18950

11. *[Signature]* T. H. H. Rd Pt Pleasant Pa 18950

12. *[Signature]* T. H. H. Rd Pt Pleasant Pa 18950

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *Nickell Miller* MI-155 MILLER PO Box 520 STUMP PLASTER
14. *Patty Muller* PATTY MULLEN - SAME AS ABOVE
15. *Ed O'Hara* EDWARD C. O'HARA BOX 22 PLUMSTEADVILLE PA
16. *Harry Greb* HARRY GREB PIPERSVILLE RD #2 PA
17. *Joyce Greb* JOYCE GREB PIPERSVILLE PA
18. *Linda Muller* LINDA MULLEN PIPERSVILLE RD #2 PA
19. *Janet L Seidwitz* JANET L. SEIDWITZ Plumsteadville, Box 11
20. *J Seidwitz* J. Seidwitz Plumsteadville PA 17949
21. *Timothy E. West* Timothy E. West Stump Rd. Pipersville PA 17949
22. *Mary West* Mary West Pipersville PA
23. *Pat Lunde* Pat Lunde Plumsteadville PA
24. *Elig. Lunde* Elig. Lunde Plumsteadville PA
25. *Bob Lunde* Bob Lunde Plumsteadville PA
26. *Bob Lunde* Bob Lunde Plumsteadville PA
27. *Larry Rd* Larry Rd RD #1 New Hope PA 18938
28. *Mary Lou Lunde* Mary Lou Lunde Stump Rd Plumsteadville PA 17949
29. *Ferry Rd* Ferry Rd RD #1 New Hope PA 18938
30. *Bob Lunde* BOB LUNDE Stump Rd Plumsteadville PA 17949
- Bob Lunde* Bob Lunde Plumsteadville PA 17949

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *George R. Shaver* GEORGE R. SHAVER BOX 275 PLUMSTEADVILLE 18949
14. *Eleanor R. Shaver* ELEANOR R. SHAVER BOX 275 PLUMSTEADVILLE, Pa 18949
15. *Curt Cooperman* CURT COOPERMAN ^{RT 611 RD} STUMP RD PLUMSTEADVILLE PA 18949
16. *Wayne Richards* WAYNE RICHARDS Box 57 Fountainville 18925
17. *Michael Heggie* P.O. BOX 509 PLUMSTEADVILLE, PA. 18949
18. *Robert Galle* SHELLEY HILL Rd REFSVILLE, Pa 18947
19. *Tom Chubb* Box 21 Stump Rd Plumsteadville Pa 18949
20. *Stephen Gray* STEPHEN GRAY BOX 13 PLUMSTEADVILLE PA
21. *Bob Becker* Plumsteadville Pa.
22. *Sam ...* Plumsteadville Pa.
23. *John ...* Plumsteadville, PA
24. *James ...* Plumsteadville, PA. 18947
25. *John ...* Plumsteadville, PA 18947
26. *Michael ...* ^{Box} 85 Stump Rd. REFSVILLE
27. *Elizabeth ...* REFSVILLE, Pa 85 Stump Rd
28. *Helen ...* Rt. 611 ^{Stump Rd.} Plumsteadville, Pa. 18949
29. *David ...* Box 161 Plumsteadville PA 18949
30. *John ...* Box 88, STUMPER, PLUMSTEADVILLE PA 18947

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|------------------|-------------------------------|
| 1. Robert C. ... | 100 Maple St. ... PA 18916 |
| 2. ... | ... |
| 3. ... | ... |
| 4. ... | 1234 Spruce St. ... PA 18916 |
| 5. ... | ... |
| 6. ... | ... |
| 7. ... | 5017 ... PA 18916 |
| 8. ... | 100 Maple St. ... PA 18916 |
| 9. ... | ... |
| 10. ... | 135 ... PA 18901 |
| 11. ... | ... |
| 12. ... | ... |

PETITION

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SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>[Signature]</i>	<i>[Address]</i>
2. <i>[Signature]</i>	<i>[Address]</i>
3. <i>[Signature]</i>	<i>[Address]</i>
4. <i>[Signature]</i>	<i>[Address]</i>
5. <i>[Signature]</i>	<i>[Address]</i>
6. <i>[Signature]</i>	<i>[Address]</i>
7. <i>[Signature]</i>	<i>[Address]</i>
8. <i>[Signature]</i>	<i>[Address]</i>
9. <i>[Signature]</i>	<i>[Address]</i>
10. <i>[Signature]</i>	<i>[Address]</i>
11. <i>[Signature]</i>	<i>[Address]</i>
12. <i>[Signature]</i>	<i>[Address]</i>

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. Fred Z... R. 3 Dept of Pt Pleasant

14. Edna Herman Ferry Rd. Pt Pleasant, Pa

15. J. C. ... R. D. 5-1317 Pipersville, Pa 18947

16. Jim McCluskey Bx 165 Groveland rd of Pipersville Pa
WISIMOR RD

17. Judith E. Mayer R.D. #2 Logstown, Pa. 15902

18. Clayton Mayer Pipersville Pa 18947

19. G. H. ... Pt. Pleasant, Pa 18901

20. John ... Box 108 Pipersville Pa 18947

21. ...

22. Harry & Nancy Groveland Rd. Pipersville Pa #1 Pa. 18947

23. ...

24. James H. ... Groveland rd Pipersville Pa #1 Pa 18947

25. ... Groveland Rd. Pipersville Pa #1 18947

26. ... Groveland Rd. Pipersville Pa 18947

27. ... Groveland rd Pipersville Pa 18947

28. ... Groveland Rd Pipersville Pa 18947

29. ... port pleasant 18950

30. ... Groveland Rd. 18947

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|-----------------------------|---|
| 13. E. Schreffler | ELWOOD SCHREFFLER, R.D. 1, Box 51A, Pipersville |
| 14. R. Myers | RICHARD MYERS, BOX 105 PIPERSVILLE |
| 15. G. Myers | GRACE MYERS, BOX 105, PIPERSVILLE |
| 16. J. Baffer | Box 45, Pipersville Pa
Rte 2/13 |
| 17. L. Lentherrman | Pipersville Pa
Route 4/13 |
| 18. G. DeSano | Pipersville Pa
Route 4/13 |
| 19. J. Lake | Pipersville Pa
Route 4/13 |
| 20. P. Chrysler | Pipersville Pa |
| 21. J. Berg | Pipersville Pa
Wilmington |
| 22. J. Berg | Pipersville Pa
Wilmington |
| 23. J. G. D. Cross | TENNIS CROSS AVE
E. LAMBERTON PA
KOEHLER |
| 24. Jean Kuehl | Box 195 Danboro, Pa 18916 0195- |
| 25. Luther H. Kopp | Old Boston Road Danboro Pa 18916 |
| 26. Luc J. Baum | 10 # 17 Pipersville PA 18947 |
| 27. Linda Sue Williams | Box 270, Danboro, Pa. 18916 |
| 28. Cec Oeschelt | RR #1 Box 15, Pipersville Pa 18947
(Pipersville Twp) Res |
| 29. Walt Smith
(KATELAS) | Box 465 Pipersville Pa 18947 |
| 30. Charles F. Baker | Box 78, Pipersville, Pa. |

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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12

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>Robert M. Schantz</i>	Robert M. Schantz P.O. Box 154 Point Pleasant, Pa. 18950
2. <i>Woodward Scott</i>	Woodward D. Scott RD 1 BROOKFIELD RD Pipersville, Pa 18947
3. <i>[Signature]</i>	[Signature] Pipersville, Pa 18947
4. <i>[Signature]</i>	[Signature] Pipersville, Pa 18947
5. <i>[Signature]</i>	[Signature] Pipersville, Pa 18947
6. <i>[Signature]</i>	[Signature] Pipersville, Pa 18947
7. <i>[Signature]</i>	[Signature] Pipersville, Pa 18947
8. <i>[Signature]</i>	[Signature] Pipersville, Pa 18947
9. <i>[Signature]</i>	193 175 Point Pleasant Pa 18950
10. <i>Jim DeMillo</i>	204 TOLLERON HILL RD PIPERSVILLE
11. <i>Carolyn Mundy</i>	Box 175 Point Pleasant Pa. 18950
12. <i>July Novak</i>	Wood Lane Pipersville, Pa 18947

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. Elmer O Strouse ELMER O STROUSE DANBORO PA
- 14. Verna Angeny VERNA ANGENY, DANBORO, PA.
- 15. Ruth Baum RUTH BAUM DOYLESTOWN RD 5
- 16. Clara Harstine CLARA HARSTINE PLUMSTEADVILLE PA
- 17. Lou Tenaglia Lou Tenaglia P.O. Box 353 Danboro, Pa. 18916
- 18. Linda Tenaglia Linda Tenaglia P.O. Box 353 Danboro, Pa. 18916
- 19. Barb McMonagle Barb McMonagle RD#5 Doylestown, Pa 18901
- 20. Sandy Landes Sandy Landes PO Box # 543
- 21. Steve Landes Steve Landes Plumsteadville Pa. 18949
- 22. Marjette Melcher MARJETTE MELCHER DANBORO, PA 18916
- 23. R Kirk Myers R. KIRK MYERS RD 5 Doylestown PA 18901
- 24. James B Todd JAMES TODD. Box 24 PLUMSTEADVILLE
- 25. Charlotte Todd Charlotte Todd Box 24 Plumsteadville Pa 18949
- 26. Bessie H Risko Bessie H Risko Box 154 " "
- 27. Lester Risko Lester Risko " " "
- 28. Frank Sharp FRANK SHARP RD 5 Old Easton Rd Doylestown Pa, 18901
- 29. Mary Sharp MARY SHARP RD 5 Old Easton Rd Doylestown Pa 18901
- 30. Margaret M Sharp Margaret M. Sharp RD 5 Old Easton RD Doylestown Pa 18901

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP,
PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT
PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR
TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER
THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT
WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT
PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|------------------------|--|
| 1. Karla Axelson | Karla Axelson Old Easton Rd, Plumsteadville, PA. |
| 2. Michael J. Johnson | Michael J Johnson, P.O. Box 342 Plumsteadville, PA 18949 |
| 3. Sasha Marohn | Box 61, Plumsteadville, Pa. 18949 |
| 4. Peter Rominger | Box 144 Plumsteadville Pa 18949 |
| 5. Marie Penning | same |
| 6. Roy Luckness | Box 172 Plumsteadville Pa |
| 7. Eileen Bardwell | Box 172 Plumsteadville, Pa 18949 |
| 8. Bruce Amagony | Bruce Amagony Box 184 Hanboro PA 18916 |
| 9. Gicci Z. Winton | Gicci Z. Winton - Box #188 Danbury, Pa. 18916 |
| 10. Richard Winton | Richard Winton
JOHN DAVID ROBERTS, JR. |
| 11. John David Roberts | OLD EASTON ROAD, P.O. BOX 403, PLUMSTEADVILLE, PA 18949 |
| 12. Alan Bleam | ALAN BLEAM
Box 188 HARING ROAD PLUMSTEADVILLE, PA 18949 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13.	New Merkel Jan 2 - 1944 FARRELL	New MERKEL OLD Ferry Rd. Pt PLEASANT " "
15.	George Boyz	Ferry Rd., Point Pleasant 18950
16.	Raymond E. Buz	" " " " 18950
17.	Val Sigstett	Ferry Road Point Pleasant 18950.
18.	Alb Kurtz	Ferry Rd Pt. Pleasant, 18950
19.	M. Stoh	Ferry Rd Pt. Pleasant 18950
20.	J. Stoh	Ferry Rd. Pt Pleasant, 18950
21.	Gene Richman	Pt Pleasant. Box 135 18950
22.	Guarano	Pt Pleasant Box 373 18950
23.	Harzema	Pt Pleasant Box 373 18950
24.	Dale	Ferry Road, Pt. Pleasant 18950
25.	S. Schumacher	Ferry Rd. Pt. Pleasant 18950
26.	D Schumacher	Ferry Rd Pt Pleasant 18950
27.	Walter Jones	Ferry Rd Pt Pleasant 18950
28.	William J. Moore	Ferry Rd Pt Pleasant 18950
	Chas Schweitzer	Ferry Rd Pleasant Pa
	Mrs. Anna Schweitzer	

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. *Thom R Amos* *Ferry Rd East* *East*
- 14. *John J Kelly* *River Rd Pt Pleasant Pa*
- 15. *Linda Metzger*, *River Rd, Pt. Pleasant, Pa.*
- 16. *Pat Mc Donough* *River Rd. Pt. Pleasant Pa.*
- 17. *Barbara Pressler*, *River Rd., Pt. Pleasant, Pa.*
- 18. *Linda Giffith* *River Rd., Pt. Pleasant, Pa.*
- 19. *Leah Jones* *River Rd, Pt. Pleasant, Pa.*
- 20. *Mary Anderson* *30 E. State St. Doylestown Pa*
- 21. *Betty Jove* *Box 431 Pt. Pleasant Pa*
- 22. *James Dashi* *104 Jefferson Ct Q-town*
- 23. *Robert Blandford* *106 Jefferson Ct. Q-Town*
- 24. *Virginia W. Hecorn* *65 HATCHWORTH AVE, YARDLEY*
- 25. *Wanda Osta* *350 W. Thenton ave Warrington PA 19067*
- 26. *Roman Wlechyj*. *12617 JUNKS FERRY ROAD PHILT. PA. 19154*
- 27. *Phil Wengelis* *5267 PONYWAY ST PHILA PA 19124*
- 28. *Jane Morgan* *9950 Badels RD PHILA PA 19115*
- 29. *Mike Butten* *Box 177 Pt PLEASANT PA. 18950*
- 30. *Marye Strats* *Box 56 Pt. Pleasant Pa 18950*

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

13

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|---------------------|--|
| 1. Fred Hammerstein | Swagger Rd & Tolgate |
| 2. Skip Meyer | " " & Tolgate |
| 3. Kemi Hammerstein | " " & Tolgate |
| 4. Virginia Demery | Swagger Rd & Hallgate Rd |
| 5. Dan Demery | Swagger Rd & Soleberg |
| 6. James E. Booy | Swagger Rd Pt Pleasant, Pa |
| 7. Frank Kallala | Swagger Rd, Pt Pleasant Pa. |
| 8. [Signature] | BOX 47 PT PL, PA. SWAFFER |
| 9. A. C. Munk | Swagger Rd. Pt. Pleasant Pa. |
| 10. Kathleen Mearns | Swagger Rd. Pleasant. 0911-8154 |
| 11. Edna R. Harman | Ferry Rd. Pt. Pleasant, Pa |
| 12. C. A. Hagood | Ferry Rd. Pt. Pleasant, Pa |
| 13. Ernest Hoferica | Swagger Rd. Pt. Pleasant Pa. |

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP,
PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT
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PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|-----------------------|--|
| John Davis | John Davis Box 3 Rt 611 Plumstead, Pa. |
| Dorothy Ellen Elliott | Dorothy Ellen Elliott |
| Neil E. Ellenoff | Neil E. Ellenoff Box 245 Pt Pleasant PA |
| C. Ference | C. Ference Box 24 Pt Pleasant, Pa. |
| John Ference | John Ference " " |
| Jonathan Ference | Jonathan Ference " " |
| Greg Berger | GREG BERGERE W. ASHLAND DOYLESTOWN |
| Stacy Snyder | Stacy Snyder P.O. Box 313 Pt Pleasant, Pa. |
| Leo Billa | River Rd. Pt. Pleasant PA 18950 |
| Joe G. GLIO | Old Ferry Road Pt. PLEASANT PA. |
| Anna M. Billa | River Rd. Point Pleasant Pa. |
| Paul Allen | Old Ferry Rd. Pt Pleasant PA |

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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12

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. Elaine S. Restifo	ELAINE S. RESTIFO Box 312, PT. PLEASANT, PA. 18950-0312
2. Ted W. Czapich	RD #1 New Hope, Pa. 18918 Czapich
3. Patricia L. James	R.D.#1 Box 163C New Hope, Penna 18938 JAMES
4. David Samsel	Box 163-1 NEW HOPE PA. Samsel
5. Bob MAYER	RD 2 DOYLESTOWN, Pa 18901 MAYER
6. Laura Pitrone	RD 2 Doylestown Pa 18901 PITRONE
7. Lauren Pitrone	RD 2 Doylestown Pa. 18901 PITRONE
8. Amy Pitrone	RD #2 Doylestown Pa 18901 PITRONE
9. Linda Barratt	rd #1 Box 163A New Hope, Pa 18938. BARRATT
10. Susan Wulf	RD #2 Doylestown, Pa. 18901 WULF
11. Jim Wulf	RD #2 Doylestown Pa. 18901 WULF
12. Paul J. Vanasse	Wisner Rd., Cameronsville, Pa 18913 VANASSE

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|---------------------------|--------------------------------------|
| 1. Ann C. Burns | Groveland Rd. Pipersville, Pa. 18947 |
| 2. Steph. Ray | GROVELAND Rd Pipersville PA 18947 |
| 3. [Signature] | " " |
| 4. Jane Hallman | Groveland Rd Pipersville, Pa. 18947 |
| 5. William J. Hallman | " " " " " |
| 6. Mildred Fillman | Wisnic Rd Pipersville Pa 18947 |
| 7. Carl Homnick | RD#1 Worman Rd Pipersville Pa 18947 |
| 8. George Kellstedt | Pipersville pa RD#1 18947 |
| 9. Shana Chome | PO Box 274 Pt. Pleasant Pa 18950 |
| 10. Sandra J. [Signature] | Box 181, Crestonville, Pa. 18926 |
| 11. Marion Kull | RD#1 Box 79, Pipersville, PA. 18947 |
| 12. [Signature] | Box 52 RD1 Pipersville Pa 18947 |

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPFRVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP,
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WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT
PUMPING STATION.

12

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. Diane Russell	DIANE RUSSELL RD#1 Silo Hill Rd.
2. Nora Peterson	Nora Peterson Box 5, Gardenville, Pa.
3. Flora Gayman	Flora GAYMAN PDK 5 Doylestown Pa
4. R.D. Reister	Gayman Rd. RD#5 Doylestown
5. R. Reister	GAYMAN RD. RD#5 DOYLESTOWN PA 18901
6. KATHY DUBYK	Gayman rd. RD#5 Doylestown Pa
7. Dan Dubyk	" "
8. Matt Dubyk	" "
9. John Dubyk	" "
10. Joe Dubyk	" "
11. Alice FATHIE	" "
12. Eileen Barnes	" "

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|------------------------|---|
| 1. <i>[Signature]</i> | Evelyn Aherne Box 25 R.D. #1
Pipersville Pa 18947 |
| 2. <i>[Signature]</i> | PATRICIA A PETZOLD R.D. 1-24A CARVERSVILLE KS
Pipersville, Pa. 18947 |
| 3. <i>[Signature]</i> | Wisner Rd
Pipersville Pa 18947 |
| 4. <i>[Signature]</i> | Wisner Rd. Pipersville, Pa 18947 |
| 5. <i>[Signature]</i> | Wisner Rd., Pipersville, Pa 18947 |
| 6. <i>[Signature]</i> | Box 14A Pipersville Pa 18947 |
| 7. <i>[Signature]</i> | Box 14A Pipersville, Pa 18947 |
| 8. <i>[Signature]</i> | Box 150 Pipersville, Pa. 18947 |
| 9. <i>[Signature]</i> | Box 146 Pipersville Pa 18947 |
| 10. <i>[Signature]</i> | Box 208 " " " |
| 11. <i>[Signature]</i> | Box 234 " " " |
| 12. <i>[Signature]</i> | Box 234 Pipersville Pa 18947 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. *Marty Brown* Martin Brown RD1 Box 150 Pipersville, Pa.
- 14. *John F Walker* JOHN F. WALKER WHITE TAIL RUN, R.D. #1, PIPERSVILLE, PA
- 15. *Tom McKisown* Tom McKisown Box 187 RD #1 Pipersville, PA
- 16. *R D Seles* Shouland Pa Pipersville Pa
- 17. *John G Phillips* Box 23 Steiner Rd. Pipersville
- 18. *George W Bost* Box 67 Gardenville Pa 18926
- 19. *Paul R Boy* Box 67 Gardenville, Pa 18926
- 20. *Brian Murphy* Box 80 Gardenville PA 18926
- 21. *Susan Silvestrini* Twin Hills Road R.D. #2 Soft PA 18901
- 22. *Austin Fitzgerald* Box 52 R.D. 1 Pipersville, Pa. 18947.
- 23. *J. H. Gray* Pt. Pleasant Road & Meyer Rd, Doylestown, Pa 18901
- 24. *Wayne J. Cantner* "Spicewood" Box 113, Pipersville Pa. 18947.
- 25. *Scott D. Ruback* Box 107 Groveland Rd. Pipersville Pa. 18947
- 26. *Thomas C Ruback* Box 157 Groveland Rd. Pipersville Pa. 18947
- 27. *Mad Emsw* Box 128 Buckingham PA 18912
- 28. *G. Plann* Box 159-A GROVELAND RD. Pipersville
- 29. *McCluskey* Rt 1 Box 105 Pipersville Pa.
- 30. *Thalia Schuetz* Box 167 - Groveland Rd. - R.1 Pipersville, Pa.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|-----------------------------|--|
| 13. <i>B. Beaudette</i> | Valley View Trailer Park |
| 14. <i>John Beaudette</i> | BEAUBETTE 11 |
| 15. <i>Hubert Wahl</i> | Wahl Rt. 1 Box 102 Pipersville |
| 16. <i>L. O'Brien</i> | Box 122 Plumsteadville |
| 17. <i>W. H. Wallis</i> | WERKHEISHER Box 113 Plumsteadville Pa. 18949 |
| 18. <i>Henry Bucarovsky</i> | Box 49 York School Rd Ocochee, Pa 18948 ✓ |
| 19. <i>David Humlhanz</i> | Box 283 Stamp Rd Plumsteadville 18948 |
| 20. <i>Raymond Humlhanz</i> | Humlhanz Valley Park Rd. Doylestown, Pa. 18061 |
| 21. <i>Frank Humlhanz</i> | Valley Park Rd Doylestown Pa 18061 |
| 22. <i>Donald Cooney</i> | Valley Park Rd Doylestown Pa 18061 ✓ |
| 23. <i>Walter Cooney</i> | Valley Park Rd Doylestown Pa 18061 |
| 24. <i>Mildred Roman</i> | Valley Park Rd Plumsteadville Pa. 18949 |
| 25. <i>Betty Roman</i> | Valley Park Rd RD #5 Doylestown Pa |
| 26. <i>Frank Roman</i> | Valley Park Rd RD #5 Doylestown Pa |
| 27. <i>Frank Roman</i> | Valley Park Rd RD #5 Doylestown Pa |
| 28. <i>Rupee Roman</i> | RUFEE, " " " " " " |
| 29. <i>Rupee Roman</i> | Valley Park Rd RD #5 Doylestown Pa |
| 30. <i>Rupee Roman</i> | WALLIS Valley Park Rd - P.D. #5 Pa 18061 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. *Janis Davis* JANIS DAVIS Box 3 Plumsteadville
14. *Linda Meyers* Linda Meyers Box 422 Plumsteadville
15. *William Magargal* Box 344 Pullin Pa. *Business in Plumstead*
WILLIAM MAGARGAL ✓
16. *William Magargal* BOX 311 MEETINGHOUSE RD. PLUMSTEADVILLE, PA.
17. *Carol Spokes* 1135 N. Easton Rd. Overstown, Pa. (Plumstead Twp) Resident!
CAROL SPOKES 15701 ✓
18. *Marilyn Fetter* P.O. Box 306 Stump Rt Plumsteadville
19. *Carolyn Keyser* PO Box 530 Plumsteadville ✓
20. *Kathy Merlotto* P.O. Box 298 Plumsteadville
21. *Jan ~~Witt~~* 7 POTRAC LN RDS Withnar, James
LOVINGSTOWN, PA (Plumstead Union) ✓
22. *Nath Wittnar* 7 Poplar RD 5 Doyles Run PA
WITTHAR, CATHY (Plumstead Resident) ✓
23. *Marie Dockery* Rd 5 *Delbertown Pa* Plumsteadville ✓
24. *William Magargal* *Witt* Plumsteadville PA
MAGARGAL ✓
25. *Dan* Box 311 Meetinghouse road Plumsteadville PA
LUBASKY ✓
26. *Robert Black* Box 306 Stump Rd, Plumsteadville
HAMILTON "Bell, aces" ✓
27. *Maryanne Hamilton* P.O. Box 341 Stump Rt Plumsteadville
BICKFORD ✓
28. *W. J. Bickford* P.O. Box 967 PLUMSTEADVILLE PA
EXNER ✓
29. *Carol Exner* Box 351 Plumsteadville, PA.
30. *John Bickford* Box 306 Stump Rd, Plumsteadville, Pa. 18947
31. *Linda Campion* *Witt* Plumsteadville, Pa. 18947

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. <i>Ronald E Miller</i>	<i>Miller</i> Box 2 Plumsteadville Pa 17012
2. <i>Wm J. Gaus</i>	<i>Gaus</i> Doyle Plumstead Pa 18915
3. <i>Jack Doyle</i>	<i>Doyle</i> Box 2443 Doylestown PA 18929 (Plumstead Pa)
4. <i>John Doyle</i>	<i>Doyle</i> Box 2443 Doylestown PA 18929 (Plumstead Pa)
5. <i>Wm J. Gaus</i>	<i>Gaus</i> Box 2443 Plumsteadville Pa 17012
6. <i>Ross Doyle</i>	<i>Doyle</i> Box 2443 Plumstead Pa 18915 (Plumstead Pa)
7. <i>Wm J. Gaus</i>	<i>Gaus</i> Box 2443 Plumstead Pa 18915
8. <i>Wm J. Gaus</i>	<i>Gaus</i> Box 2443 Plumstead Pa 18915
9. <i>Ronald E Miller</i>	<i>Miller</i> Box #1024 Doylestown Pa 18901 (Plumstead Pa)
10. <i>Carl F. Gaus</i>	<i>Gaus</i> Box 2443 Carversville, Pipersville Pa
11. <i>Wm J. Gaus</i>	<i>Gaus</i> Box 2443 Carversville P.D. Pipersville, Pa
12. <i>Wm J. Gaus</i>	<i>Gaus</i> Box 2443 Carversville P.D. Plumstead Pa

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

1. <i>Joann Kice</i>	Kice, Joann Box 435 Smithtown Rd. Pipersville
2. <i>Phil Turner</i>	Phil Turner Box 268 Plumsteadville
3. <i>Wm. Goodwin</i>	Stump Rd.
4. <i>William G. ...</i>	Stump Rd. Plumsteadville
5. <i>Edward Brown</i>	Edward Brown
6. <i>Ken Hemsteger</i>	Hemsteger Plumsteadville Pa
7. <i>Pat Robertson</i>	Plumsteadville Pa Stump Rd. RN#1 ✓
8. <i>Robert ...</i>	Box 99 Plumsteadville ✓
9. <i>Wm. Frankenthal</i>	Wm. Frankenthal Stump Box 105 Plumsteadville
10. <i>Wm. Gates</i>	Durham Rd. Plumsteadville ✓
11. <i>Bob ...</i>	Rt 601 Church Rd. PO Box 515 Plumsteadville ✓
12. <i>Wm. ...</i>	Nathans Box 3 Smithtown Rd. Pipersville

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>[Signature]</i>	C PO Box 41 Gardenville
2. <i>[Signature]</i>	Box 574 <i>[Address]</i> P 2875
3. <i>[Signature]</i>	<i>[Address]</i> Plumsteadville Pa
4. <i>[Signature]</i>	BOX 2 PIPELUVILLE PA 18941
5. <i>[Signature]</i>	Box 223 Swamp Road P.D. Pipestown Pa. 18947
6. <i>[Signature]</i>	Lot 4 Danbars, PA 18916
7. <i>[Signature]</i>	Box 48 Danbars, PA 18916
8. <i>[Signature]</i>	Box 70 Pipestown Pa
9. <i>[Signature]</i>	Box 100 Maple Rd, Pipestown, Pa 18947
10. <i>[Signature]</i>	RD #5 Swamp Road Doylestown Pa 18901
11. <i>[Signature]</i>	POB 273 Danbars Pa 18916
12. <i>[Signature]</i>	<i>[Address]</i>

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE	NAME & ADDRESS (PLEASE PRINT)
1. <i>[Signature]</i>	Box 526 Plumsteadville Pa
2. <i>[Signature]</i>	BRETZINS BOX 513 PLUMSTEADVILLE PA
3. <i>[Signature]</i>	BOX 529 PLUMSTEADVILLE PA
4. <i>[Signature]</i>	Box #97 Plumsteadville, Pa
5. <i>[Signature]</i>	Box 97 Plumsteadville, Pa
6. <i>[Signature]</i>	Box 146 Plumsteadville, Pa
7. <i>[Signature]</i>	Box 106 - 52 nd Street
8. <i>[Signature]</i>	"
9. <i>[Signature]</i>	Plumsteadville Pa Plumstead. Box 52
10. <i>[Signature]</i>	Fluch PO Box 37 Plumsteadville Pa
11. <i>[Signature]</i>	Rebersville Pa
12. <i>[Signature]</i>	Plumsteadville Pa

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

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SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|----------------------------|--|
| 1. <i>Steve Pirmann</i> | RD 5 OLD EASTON Rd Steve Pirmann |
| 2. <i>Donna Brehm</i> | Donna Brehm |
| 3. <i>Edith Bender</i> | Edith Bender RD#5 Old Easton Rd. |
| 4. <i>Denise Bender</i> | RD 5 OLD EASTON ROAD, DOYLESTOWN, PA. 18901 |
| 5. <i>Louise Hamilton</i> | LOUISE HAMILTON
RD#5 OLD 611 Doylestown, Pa. 18901 |
| 6. <i>Lewis Hamilton</i> | LEWIS HAMILTON
RD#5 OLD 611 DOYLESTOWN, PA. 18901 |
| 7. <i>Cheryl Good</i> | Cheryl Good
Old 611 Plumsteadville, Pa. 18949 |
| 8. <i>Katie Bradfield</i> | Hatie Bradfield
PO. Box 74 Plumsteadville Pa. 18949 |
| 9. <i>Joseph Bradfield</i> | JOSEPH BRADFELD
PO. BOX 74 PLUMSTEADVILLE PA. 18949 |
| 10. <i>Tom Hoxson</i> | TOM HOXSON Rd 5 Doylestown |
| 11. <i>Bruce Bunch</i> | Bruce Bunch
345 Plumsteadville PA 18949 |
| 12. <i>Paul R. Ely</i> | PAUL R. ELY
BOX 12, PLUMSTEADVILLE, PA. 18949-0012 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|----------------------|---|
| 13. Mrs Robert Sweet | Mrs. Robert Sweet
Stump Rd
Plumsteadville |
| 14. Mr Robert Sweet | Robert Sweet
Stump Rd.
Plumsteadville Pa. |
| 15. Mrs Betty Maust | BETTY MAUST
Stump Rd.
Plumsteadville Pa. |
| 16. Mrs Janet Barlow | JANET BARLOW
STUMP ROAD, Box 158
PLUMSTEADVILLE, PA 18949 |
| 17. John Fick | John Fick
* Same |
| 18. Robert W Barlow | ROBERT BARLOW same as above |
| 19. Peggy Barlow | PEGGY BARLOW (SAME) |
| 20. Roy Barlow | ROY BARLOW
Box 294 Plumsteadville, Pa. |
| 21. Tom Simon | TOM SIMON
P.O. BOX 52
PLUMSTEADVILLE PA. 18949 |
| 22. Mike Montgomery | P.O. BOX 324
PLUMSTEADVILLE 18949
PO BOX 324 |
| 23. Diana Lou Day | PLUMSTEADVILLE 18949
P.O. BOX 309 |
| 24. Jean Hestler | PLUMSTEADVILLE, PA. 18949
PO BOX 99 |
| 25. Barry R Bauc | Plumsteadville PA 18949
Box 536 |
| 26. Carl Kentopp | Plumsteadville Pa 18949. |
| 27. Emma Fredovich | SILVER HILL RD.
PLUMSTEADVILLE, PA. 18901 |
| 28. Lash Kentopp | PLUMSTEADVILLE, PA. 18949 |
| 29. Mary C Mann | Mary C. Mann
Plumsteadville, Pa. 18949 |
| 30. George W Mann | George Mann
Plumsteadville Pa 18949 |

PETITION

TO THE PLUMSTEAD TOWNSHIP SUPERVISORS

WE, THE UNDERSIGNED, RESIDENTS OF PLUMSTEAD TOWNSHIP, PENNSYLVANIA, OPPOSE THE PROPOSED POINT PLEASANT PUMPING STATION AND ITS CONSTRUCTION. WE URGE OUR TOWNSHIP OFFICIALS TO DENY ANY PROPOSAL TO ALTER THE ZONING ORDINANCE, OR TO ISSUE ANY VARIANCE THAT WOULD PERMIT THE CONSTRUCTION OF THE POINT PLEASANT PUMPING STATION.

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- | SIGNATURE | NAME & ADDRESS (PLEASE PRINT) |
|------------------------------|---|
| 1. <i>Jack Loox</i> | Jack Loox Box 184 Plumsteadville Pa. |
| 2. <i>Elsie Mann</i> | ELSIE MANN Box 34 Plumsteadville PA. |
| 3. <i>Alan Wismer</i> | ALAN WISMER Box 283 Plumsteadville, Pa. |
| 4. <i>John C. Mann</i> | STUMP ROAD PLUMSTEADVILLE, PA. 18949 |
| 5. <i>Paul Johnson</i> | PAUL JOHNSON STUMP RD PLUMSTEADVILLE, PA 18949 |
| 6. <i>Rose Ann Lutze</i> | Rose Ann Lutze, Box 308, Plumsteadville, Pa. |
| 7. <i>Georgia L. Johnson</i> | Georgia Johnson Box 308, Plumsteadville, Pa. 18949 |
| 8. <i>Grace M. Huber</i> | GRACE M. HUBER
Box 238 Plumsteadville, Pa. 18949 |
| 9. <i>Russell W. Huber</i> | Russell W. Huber
Box 238 Plumsteadville Pa. 18949 |
| 10. <i>Janet E. Bleam</i> | Haring Rd. Box 188 Plumsteadville, Pa. 18949 |
| 11. <i>Richard Rush</i> | RICHARD RUSH
Haring Rd Box 68 PLUMSTEADVILLE 18949 |
| 12. <i>Ethel H. Rush</i> | Ethel H. Rush Box 68 Plumsteadville Pa 18949-0068 |

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

13. Kevin O'Connell Topickon Kill Rd Pipersville Pa 18947
14. Matthew Eitell Topickon Kill Rd Pipersville Pa 18947
15. Jimmy Hoffa " " " "
16. " " " "
17. ~~Robert Walker South Street Pipersville~~
18. Kevin D. Mott Bx 100 Pipersville Pa
19. Florence Slaw R.D. 4 Landisville Pa Doylestown, Pa
Stratell
20. Jimmy Stratell 4 John Dyer Way Day
21. Joan Cabalin 5 John Dyer Way Doylestown, Pa 18901
22. Mark Casgrove Bx. 271 RD.#1 Pipersville Pa. 18947
23. Kenneth Schueler Box 35, Danboro, Pa 18916
24. Marion Frohman " " " "
25. Nancy Schuch Box 35, Danboro, Pa 18916
26. Gary Peterson Bergstrom Rd. Doylestown Pa 18901
27. Ed Jusits
Ed Jusits RD 5 Bergstrom Rd, DOYLESTOWN PA 18901
28. Janit Robinson " " " " " "
29. Lita Campbell " " " " " "
30. Lita Campbell
Campbell " " " " " "

SIGNATURE

NAME & ADDRESS (PLEASE PRINT)

- 13. John Diehl JOHN S. DIEHL, Box 92, DANBORO, PA
- 14. Lois Diehl Lois Fish Kill RDS Doylestown, PA 18901
- 15. Carol Brooks CAROL BROOKS, Doylestown, PA. 18901
- 16. JoAnne Belcher JOANNE BELCHER, GAROENVILLE, PA 18926
- 17. Maurer Pierchia Pt. Pleasant Pike Doylestown, PA 18901
- 18. Ann Donato Pt. Pleasant Pike, Doylestown
- 19. Richard Long RDS Point Pleasant Pike Doylestown, Pa 18901
- 20. Helen Long " " " " " "
- 21. Charles Long " " " " " "
- 22. Linda McWhinney Stump Rd RD#1 Pipersville Pa 18947
- 23. Veronah Margen R.D. 1 - Box 76 Fountainville, Pa 18923
- 24. ~~John Diehl~~
- 25. John Diehl RDS Culbert Hill Rd Doylestown 18901
- 26. Jane Sampson Curly Hill Rd Doylestown, Pa 18901
- 27. Jack Diehl Curly Hill Rd Doylestown Pa 18901
- 28. Alex & Kathy Duckett Curly Hill Rd Doylestown Pa. 18901
- 29. Freddy Duff " " " " " "
- 30. Lynn Kuntz " " " " " "

1 (Applause.)

2 MR. MOODY: Thank you.

3 Charles Pellegrino.

4 PRESENTATION OF CHARLES PELLEGRINO

5 MR. PELLEGRINO: My name is Charles

6 Pellegrino, Old Eastern Road, Pipersville, Pennsylvania.

7 Thank you for being here.

8 One of the environmental impacts of an intake
9 for Limerick being placed in the Delaware River at Point
10 Pleasant would be the implementation of the Neshaminy
11 Water Resources Authority water plan, a plan that would
12 exist hand in hand with the intake operation.

13 The building and operation of the water system
14 and intake would cause numerous and previously listed
15 environmental, social, historical, archaeological,
16 esthetic and economic harm to Bucks County where I live.

17 Some people believe that the impacts are
18 unavoidable because water is short, people need water
19 and they might as well go along with the people and
20 share expenses. This is false. This is the thirsty
21 people smokescreen.

22 Ground Water Study Area Two Aquifer is not
23 short of water and the economic results are bitter.
24 They include high bond paybacks, high-priced water and
25 assessments for footage.

1 The latest ground water study compiled for the
2 Delaware River Basin Commission shows that there is
3 plenty of available ground water in Bucks and Montgomery
4 Counties which are included in the Ground Water Study
5 Area 2. You can read it for yourself in the report done
6 by the R. E. Wright Associates of Middletown,
7 Pennsylvania. It is far more economical and less
8 environmentally damaging to continue to use well water
9 in this area.

10 Therefore, do not think that taking Delaware
11 River water would aid Bucks or Montgomery water supply
12 needs, or that the associated environmental harms are
13 unavoidable.

14 If Limerick must use water, Limerick should
15 sensibly obtain water from a closer source or from an
16 existing facility. The environmental damage would be
17 far less.

18 Thank you.

19 (Applause.)

20 MR. MOODY: Thank you.

21 Val Sigstedt.

22 PRESENTATION OF VAL SIGSTEDT

23 MR. SIGSTEDT: Thank you.

24 My name is Val Sigstedt. I live in Point
25 Pleasant, Pennsylvania. I am founder and past president

1 of Delaware Unlimited, Incorporated.

2 Our contentions were accepted by the NRC to
3 the effect that there is at least a question of whether
4 or not the use of the Delaware River might be solely due
5 to the use of the Philadelphia Electric Company and
6 therefore should be under the direct charge of the
7 Federal Government.

8 As this is standing right now, the
9 relationship between the Federal Government on this is
10 very uncertain. There is almost no federal mandates as
11 to who takes care of rivers. We are looking down at a
12 river that has suffered enormously from the lack of
13 concern of the people in this basin.

14 Now I don't say it is the people in this basin
15 who are not concerned about the river, but it is
16 certainly the people in this basin who allowed the City
17 of New York to take over the head waters of the Delaware
18 River. It is probably a basic right of a river to exist
19 as a river and not as a source of water for somebody in
20 some distant watershed.

21 When you get into the questions of diversion,
22 you get into the questions of whose rights to the water
23 are really being violated or whose rights to the river
24 and water are being accepted as a prime natural function
25 of water.

1 I live in Point Pleasant and, as you can tell,
2 this is a very difficult subject for me because it is my
3 town that is being gone through by a very large
4 military-like maneuver. The rocks that my town is based
5 on are very old rocks. There is an igneous intrusion in
6 Point Pleasant that is basically a diabased intrusion
7 running up through the basic rock plateau that we all
8 live on in the Delaware River, at least in what is
9 called the Triassic lowlands.

10 In our case we have a special problem up
11 there. When you bake the rocks in Point Pleasant, as
12 has happened, you have something very much like glass or
13 steel happening to the rocks that have been baked. Now
14 that kind of rock when you blast on it is like hitting a
15 rod. I could take a rod from here to let's just say the
16 towers and hit it with a hammer and there is no question
17 that the impact of my hammer could go clear to wherever
18 that rod ended and do its damage right there.

19 Now the problem is that every place you have a
20 hole in the Triassic lowlands with this kind of rock and
21 you start blasting, the shockwave goes until it reaches
22 that hole and then it smashes whatever is around there.
23 Now think of that as the hole that you call a well or
24 the hole that you call the foundation for a home, or the
25 hole that your septic tank has to be part of. If you go

1 blasting around Point Pleasant you are going to wreck
2 things and that is a fact.

3 What other things will happen to Point
4 Pleasant? It is an archaeological resource, a marvelous
5 archaeological resource. They are finding Indian
6 material there. Maybe the most important thing the
7 fight about this pumping station may achieve is to
8 document that this whole place in Point Pleasant has
9 meaning from the past clear to our own time.

10 The vicinity itself is rich in the cultural
11 facts of a river civilization. It should be left
12 alone. It is a resource that this area can never do
13 again and it can't do without. If you put water above
14 us, and that is what Bradshaw Reservoir is, which is the
15 receptical for the river water coming out of Point
16 Pleasant, pumped out of there by 25,000 horsepower pumps
17 anchored into the bedrock, and they will make noise and
18 they will shake and there will be a large diesel engine
19 there to pump the air which is going to come up in the
20 pristine eddy, air to back-flush these intakes, a nice
21 place to teach your kids how to canoe or show them how
22 to fish is in a place on this seemingly undisturbed
23 water where suddenly a belch of air comes up that is 75
24 feet long and noise.

25 Those are not the things that you would put in

1 your own hometown if you were anywhere sane. I have
2 even had a representative of the Philadelphia Electric
3 Company say to me I would do what you people are doing
4 if it was going through my hometown, and I must say I
5 respect that.

6 You can't just pretend that the town doesn't
7 exist. If the water gets up to the Bradshaw Reservoir,
8 it is going to be forced down through 17 feet of
9 waterhead, and if you ever held a hose up in the air
10 that is a lot of pressure of water, and just that is
11 enough to force it down into the ground water, which in
12 our terms is a fractured rock plain that carries water
13 interconnectedly through all of our wells. The local
14 well people know that water from one well is really the
15 same as in other wells.

16 Now once you infiltrate that with river water,
17 with TCE's and with hydrocarbons and chlorinated
18 hydrocarbons and all the kinds of things that the
19 industrial communities need and use and hopefully we
20 will find a way to clean up, we get that in our ground
21 water and we get that in our well water. It is a real
22 question.

23 Now the intakes. The intakes are in the eddy
24 at Point Pleasant which is a very beautiful place. It
25 is right below the mouth of the Tohickon Creek and the

1 Tohickon Creek is a notorious stick hole because it
2 cones right down from Quakertown and Quakertown
3 processes its unfiltered sewage, 50 percent treated
4 sewage and lets it down into the Tohickon Creek. That
5 is the water that in their wisdom the Counties of Bucks,
6 Montgomery and PECO are going to infuse into all the
7 river systems that Mr. McKnight spoke about earlier.

8 It is a dirty way to handle water and people
9 should take care not to do it because there is no way
10 going back on it. You simply have to tell all the
11 people who got that water either we clean up the rivers
12 or we make them get off their land. It is PECO's
13 project. Bucks County was forced to go this thing
14 alone.

15 It will happen if the organizations and the
16 groups of people, the enormous numbers of sensitive
17 people have their way in this, and we will use every
18 reasonable method to stop that pumping station and stop
19 the County of Bucks from having any parts in it. Then
20 PECO will be forced to go it alone and they will be
21 forced to use the ordinary processes that are designed
22 so that intake for a nuclear plant has to be studied
23 environmentally and not just in a couple of months or a
24 half a year. It takes a couple of years to do a really
25 good study of what an intake does to a river or a water

1 system. That is what PECO should have to do to get
2 water out of the Delaware, and everyone I know will say
3 you couldn't get a successful impact statement that
4 would let them take water out of that beleaguered river.

5 Thank you very much.

6 (Applause.)

7 MR. MOODY: Thank you.

8 I inadvertently skipped a name that was on the
9 list.

10 Kathryn Auerbach.

11 PRESENTATION OF KATHRYN AUERBACH

12 MS. AUERBACH: Good evening.

13 I am Kathryn Auerbach. I am speaking for the
14 Bucks County Conservancy, 11 North Main Street,
15 Doylestown, Pennsylvania.

16 The Conservancy wishes to make the following
17 statements regarding the impacts of the proposed pumping
18 station on the Delaware River at Point Pleasant on the
19 archaeological and historical resources defined and
20 recognized at that site.

21 Our primary concern is with regard to two
22 federal laws, Section 106 of the National Historic
23 Preservation Act of 1966 and Section 110(f) of the
24 National Historical Preservation Act Amendments of 1980.

25 There are several historical resources which

1 fall under the protection of these laws within the
2 impact area, namely, the archaeological district of
3 Point Pleasant and the historical district of Point
4 Pleasant both deemed eligible for the National Register
5 and the Delaware Division of the Pennsylvania Canal, a
6 national historic landmark.

7 The Conservancy has made public testimony with
8 regards to these resources to the Delaware River Basin
9 Commission and the United States Army Corps of
10 Engineers, Philadelphia Branch, and has submitted
11 extensive documentation to the Pennsylvania Historical
12 Museum Commission, the National Register, the Army Corps
13 and the Advisory Council For Historic Preservation. We
14 understand the NRC has accepted these previous
15 testimonies as part of the public record of the
16 Conservancy's comments.

17 There are several new points that the
18 Conservancy wishes to make tonight.

19 First, the Conservancy feels that the review
20 procedures by other agencies regarding the Delaware
21 Canal have not complied with the provisions of Section
22 110 of the above-cited law. This section states that
23 "The head of the responsible federal agency shall, to
24 the maximum extent possible, undertake such planning and
25 actions as may be necessary to minimize the harm to such

1 landmarks and shall afford the Advisory Council a
2 reasonable opportunity to comment on the undertaking."

3 The crossing of the Canal at the proposed
4 location will cause considerable damage and disruption
5 to the Canal and its environment. Specifically the
6 blasting to the extremely hard rock 30 feet below the
7 Canal will destroy that section of the Canal and
8 endanger two original locks flanking the site and
9 possibly the aqueduct over the Tohickon Creek.

10 Blasting studies to date have been questioned
11 as to their adequacy assessing the impact of blasting
12 according to the present designs of the project. The
13 mountain side inn and hotel being of the mid-18th
14 Century is included in the Canal's landmark designation
15 and within direct visual environment of the proposed
16 project.

17 Admittedly, the vicinity around the Canal and
18 the hotel is primarily a natural one and the inclusion
19 of an intrusion diminishes the value of the visual
20 quality created by these resources.

21 The Advisory Council recognizes the
22 implications of Section 110(f) and is presently
23 including them in its memorandum of agreement being
24 drafted with the Army Corps of Engineers.

25 The Conservancy recommends to the NRC that

1 alternatives to the proposed project for supplying water
2 should be actively investigated in accordance with
3 Section 110(f) in ensure the protection of the Canal.
4 The ultimate value of the Canal, a national resource,
5 can only be retained if it is maintained as much as
6 possible in its existing state and not destroyed and
7 rebuilt as a facsimile.

8 Secondly, through the efforts of the
9 Conservancy, a definitive study is being conducted
10 uncovering new information regarding the archaeological
11 resources within the district of Point Pleasant which is
12 leading to an increased understanding and significance
13 of the site. The archaeological district, which follows
14 essentially the same boundaries as an historic district
15 as defined by the Conservancy, is significant for the
16 following reasons.

17 First of all, to date there has been no
18 detailed archaeological investigation of the Indian
19 occupation in the Middle Delaware Valley, especially on
20 the Pennsylvania side, and this new site therefore can
21 yield new and significant information regarding
22 Pennsylvania prehistory.

23 Secondly, within the boundaries are several
24 types of features adjacent or a part of each other,
25 village occupation sites, lithic workshops, graves and

1 most importantly argillite quarries. The latter is
2 generally found as an isolated feature and not adjacent
3 to the village occupation area, thereby making the Point
4 Pleasant area an example of a very unusual and
5 significant archeological resource.

6 Thirdly, a number of the flood plain sites are
7 stratified. One recently tested has revealed a nearly
8 perfect stratification with a late woodlander most
9 recent occupation beginning 20 inches below the
10 surface. Sites in this region range from the time of
11 the European contact as far back as 4,000 B.C. Within
12 this district many of the features are basically intact
13 and are resources that can be tapped carefully for
14 important information.

15 Mr. Samuel Anders of Ridmore College and
16 formerly Regional Archaeologist for the Pennsylvania
17 Historical Museum Commission is of the strong opinion
18 that the Point Pleasant archaeological district may in
19 itself qualify as a national historic landmark. The
20 proposed intake pipes would cut directly through a
21 significant section of one of the village occupation
22 sites and thereby destroying valuable data necessary to
23 the integration of all the sites and interpretation of
24 the Delaware River occupation as a whole.

25 Salvage archaeology is an undesirable method

1 of retrieving data. All efforts should be taken to
2 ensure that all the sites within this district be
3 preserved in order that proper study can be conducted
4 with great care.

5 Thirdly, the unique quality of the historic
6 district of Point Pleasant will be maligned with the
7 intrusion of the facility with a use incompatible with
8 its surroundings. Point Pleasant is characterized by
9 its strong natural features and casual residential and
10 light commercial activities with strong ties to the
11 river through fishing, recreation and simply by the
12 climate and atmosphere created by the flowing water.

13 Point Pleasant encapsulizes a river
14 civilization which has existed over six millennium with
15 worker occupations gracefully overlaying the former with
16 a continuing recognition of the river as a source of
17 subsistence and pleasure to its inhabitants.

18 The Conservancy strongly recommends that
19 alternatives be sought which would not disturb the
20 delicate quality of these resources and their
21 environment.

22 Thank you.

23 (Applause.)

24 MR. MOODY: Thank you.

25 Patricia Walsh.

1 PRESENTATION OF PATRICIA WALSH

2 MS. WALSH: I am Patricia Walsh from Point
3 Pleasant.

4 I would just like to point out a few of the
5 adverse impacts the proposed Point Pleasant diversion
6 would have.

7 The proposed Point Pleasant diversion would
8 have and cause major adverse effects to the Delaware
9 River and the East Branch of the Perkiomen Creek and the
10 communities in the area including the following.

11 The proposed intake at Point Pleasant,
12 Pennsylvania would deplete the water resources of the
13 Delaware River and substantially destroy a significant
14 spawning and nursery area for the American shad and
15 adversely affect a possibly critical habitat of the
16 short nose sturgeon, an endangered species, and
17 eliminate or substantially eliminate important
18 recreational, boating, swimming and tubing area in the
19 Delaware River.

20 The water withdrawal will cause deterioration
21 of water quality in the Delaware River down to and
22 including the estuary, and increase the salt water
23 intrusion of the Delaware River thereby affecting
24 downstream users' public water supplies and the ecology
25 of the Delaware River and estuary as a whole.

1 The intake facilities would destroy the
2 character and possibly the physical structure of the
3 national historic landmark of the Pennsylvania Canal and
4 substantially destroy the environment of the landmark
5 and the adjoining national historic district.

6 Eligibility is being determined by the
7 consultants to the U. S. Army Corps of Engineers. The
8 compiles will substantially destroy the peace and
9 tranquility of the Point Pleasant Village. The proposed
10 Bradshaw Reservoir will adversely affect the ground
11 watertables and ground water quality throughout the
12 Point Pleasant and Bumstead Township area.

13 A discharge into the Perkiomen Creek will
14 adversely affect water quality in the Perkiomen Creek
15 and cause bank destabilization, flooding and adversely
16 affect fish and wildlife in the Perkiomen Creek and its
17 valley.

18 Those are just a few of the things. I am a
19 member of Delaware and have been so for two and a half
20 years, well, before Delaware even existed actually.

21 (Laughter.)

22 MS. WALSH: Water is really important, and to
23 go into this business of nuclear power plants without
24 having the water problem solved is very bad business,
25 and I would just like to ask you to really take a good

1 look at the water problems.

2 Thank you.

3 (Applause.)

4 MR. MOODY: Thank you.

5 That is the 20th presentation. There are 14
6 to go. So you will know how we stand.

7 Colleen Wells.

8 PRESENTATION OF COLLEEN WELLS

9 MS. WELLS: Good evening, ladies and gentlemen
10 and members of the Nuclear Regulatory Commission.

11 My name is Colleen Wells and I am from
12 Pipersville in Bucks County, Pennsylvania, and I am
13 presently the President of Delaware, Unlimited, and as
14 such I would say we are in an organization approaching a
15 thousand members in Bucks County and Montgomery County
16 as well as New Jersey.

17 I would also state that we represent the
18 public interest in Bucks County in the Delaware Valley
19 in the impact area of the proposed Point Pleasant
20 diversion. As such I would just like to say that as
21 many people here have spoken eloquently to the issues
22 that concern the people of the region that is affected,
23 and, as you already know, we are intervenors into the
24 operating license procedure for Limerick. So you are
25 well aware of our contentions and the issues that we

1 would like to bring before the Nuclear Regulatory
2 Commission.

3 Along with that I would like to state, if you
4 are not already aware, that the people in the Delaware
5 Valley are unalterably opposed to the diversion of water
6 from the Delaware River for the purpose of cooling water
7 at the Limerick Nuclear Power Plant. I think that there
8 is no way around that fact.

9 In conjunction with that in order to determine
10 or to understand better exactly what the concerns of all
11 the residents of that area are, the Nuclear Regulatory
12 Commission must hold a public hearing in our own region
13 because as you will hear from Delaware ---

14 (Applause.)"

15 MS. WELLS: --- as you hear from Delaware in
16 our intervention and in our litigation proceedings, you
17 understand exactly what we are saying. We speak for our
18 group and we speak for the people, but in order to get
19 the wide range, the panorama of the concerns that all
20 the people have you must do that.

21 As you are already aware of many of the
22 concerns that we raise, the only things that I would add
23 to that is the fact that since the conception of
24 Limerick the effects of the Point Pleasant diversion
25 have never been considered in any review.

1 During the construction license stage it was
2 determined that Point Pleasant was an assumption and
3 therefore it was not necessary to review. The DRBC in
4 1973 decided it was too early. When they did their
5 environmental impact statement they decided that it was
6 too early to look at the intake on the Delaware River as
7 there was no design. In 1979 they came out with their
8 environmental assessment and still they decided that it
9 was too early as the intake has been moved.

10 The Corps of Engineers is the most recent
11 holder of the jurisdiction over the permits for the
12 intake and since the public hearing that they have held
13 on the intake and related components of the project the
14 intake has been moved yet again.

15 In light of that and in light of the fact that
16 the July 1982 DRBC recommendations on the handling of
17 the Delaware River and by their own admission they
18 cannot say that they can hold back the salt line or that
19 they can guarantee any flow in the river. Since they
20 haven't determined a number that they can guarantee in
21 times of low flow or drought, I think that it is
22 completely within the purview of the Nuclear Regulatory
23 Commission to take a very hard look at the local impacts
24 of the Point Pleasant diversion and its intake on the
25 Delaware River as well as the overall impacts and the

1 cumulative impacts which will be perpetrated by the
2 installation of this impact intake as well as the
3 installation of the Murrel Creek Project upstream which
4 is to be used for make-up water for the Point Pleasant
5 diversion.

6 The other fact that must be considered is that
7 Limerick may have only one unit and maybe there will be
8 no units, but in light of any of those situations the
9 water issue is of serious concern about the adequacy of
10 the water supply for the Limerick Nuclear Generating
11 Station. I would only reiterate that it is not going to
12 come from Point Pleasant.

13 Thank you.

14 (Applause.)

15 MR. MOODY: Thank you.

16 Mary Bean Rogers.

17 PRESENTATION OF MARY BEAN ROGERS

18 MRS. ROGERS: I am Mary Bean Rogers, Mrs.
19 Richard Rogers. I live on the Sumneytown Pike in Upper
20 Salford Township, Montgomery County.

21 Air and food and water are the only elements
22 the human beings have to have in order to live on this
23 planet earth. In our world we humans cannot survive
24 without any one or all of these three.

25 History records and archaeology discloses that

1 powermongers have since the advent of man sought and
2 battled to get control of these three necessities of
3 life for humans, air, food and water. That is what is
4 going on at this moment in this place with Limerick
5 nuclear.

6 Of all the techniques available to
7 manufacturer electricity for anybody anywhere in the
8 world today only nuclear fuel generation of that power
9 generation of that power can exclude air, food and water
10 from human beings. None of the other fuels can destroy
11 not just the availability of air, food and water, not
12 just access to air, food and water, but air itself, food
13 itself and water itself.

14 We have in our century invented this process.
15 We can do it, we used it and we are using it. It is the
16 discovery, the realization of the increased power of
17 utter negation for all of us that makes the building,
18 the licensing and the operation of Limerick and
19 Limerick's ilk so much more serious a procedure than for
20 any other kind or combination of electric water
21 transportation construction, promotion or business
22 expansion and/or monopoly that these powermongers have
23 sought and got in the past.

24 Questions: Is it true today that the Nuclear
25 Regulatory Commission of the United States of America,

1 USNRC, has no legal right to deny a permit to
2 Philadelphia Electric Company or any other applicant to
3 operate a nuclear fuel power plant? Instead, is the
4 USNRC restricted by law to conditioning only such a
5 permit which they have to issue in some form sooner or
6 later?

7 I would like to have the answers to these two
8 questions from the USNRC in writing.

9 If an environmental impact statement is a part
10 of the licensing review and permit process legally
11 required to be made by the NRC, then the present NRC
12 members in fairness to themselves and to protect the
13 integrity of the Commission to which they have been
14 appointed should start with a clean slate and create an
15 EIS entirely by themselves based upon their own findings.

16 I warn the president of NRC to be on guard and
17 not to rely on any material incorporated in any of the
18 reports and EIS's already issued in relation to
19 Limerick. I do not say don't read them. You should
20 read them to see what was put out and what wasn't.

21 I say do not rely upon them because they all
22 are loaded with incorrect big mistakes, discrepancies,
23 omissions and fiction. They are rigged propaganda, pro
24 Limerick and pro Point Pleasant diversion. If you wish,
25 I will furnish you with details from my findings, but I

1 can't do it here now in five minutes.

2 For your EIS I want you to include
3 investigation of the following as of the utmost
4 importance.

5 Re the 45 million gallons a day plus or minus
6 of water for consumptive use required to operate
7 Limerick, there is no set specific plan submitted to get
8 that amount of water to the reactors, nor has there ever
9 been any revealed at any time. All the answers to
10 questions asked for or objections to are, oh, well, we
11 aren't going to do it that way now. There has been no
12 recognition of the conditions in impoundments, including
13 premature failure, requisitioned to be part of the
14 peculiar alternating water supply for the Limerick
15 reactors.

16 Does NRC know that the private Philadelphia
17 Suburban Water Company built their Green Lane Reservoir
18 dam on a fault? Is the NRC aware that the location of
19 the Perkiomen Creek intake is not where it is shown to
20 be on the plans?

21 There has been no evaluation of the effects of
22 Limerick nuclear upon the food supply, the water supply
23 and sewage disposal physical or economic of the three
24 great metropolitan areas containing millions of humans
25 at the points of a triangle within which Limerick

1 nuclear is being built.

2 No recognition has been paid to the confirmed
3 prior water rights of others to the waters involved in
4 the supply and conduit for Limerick, the court decrees
5 applicable or for the future needs that this taking will
6 interfere with.

7 Please investigate the building and closing
8 and severance of railroads in strategic locations in the
9 neighborhood, the closed bridges and thereby road
10 abandonment and the congesting of traffic by whom and
11 when.

12 Most importantly, evaluate the importance of
13 the proximity of the control center of the entire
14 Pennsylvania/New Jersey/Maryland interconnection, PJM in
15 Lower Providence Township near the Betzued Bridge and
16 other generating and distribution stations and not just
17 the PECO, but other electric lines, gas lines, oil
18 lines, sewage lines, water lines and lines of
19 communication.

20 I quote, "To err is human." PECO admits
21 this. See their accident preparation expenditure at
22 Limerick. The possibility of accidents was off bounds
23 for us to discuss before TMI because we could not prove
24 by fact that it could happen here. TMI is constantly
25 referred to as the worst nuclear accident we ever had.

1 It isn't "had." TMI isn't over yet and nobody seems to
2 know when or if it will be, and worse than that, who is
3 going to have to pay how much to try to get it over?

4 Cautiously apply TMI to Limerick. Think on
5 the consequences of nuclear contamination of the air,
6 the food and the water that we humans have to have to
7 live which can happen if PECO is granted a permit to
8 operate Limerick No. 1 and/or Limerick No. 2.

9 Realize and admit that there is only one
10 foolproof way to guarantee no nuclear accident: No
11 permit issued to Philadelphia Electric Company to
12 operate Limerick as a nuclear plant.

13 Thank you.

14 (Applause.)

15 MR. MOODY: Thank you.

16 Robert Boyer.

17 PRESENTATION OF ROBERT BOYER

18 MR. BOYER:

19 My name is Robert Boyer and I live in lower
20 Pine Creek Grove in Chester Springs.

21 I manage Sky Castle Farm in Chester Springs
22 which is a 250 acre pure bred beef cattle operation and
23 hog operation, and I am very concerned about Limerick
24 nuclear plant becoming operational.

25 I also have a deep heritage in this area. My

1 ancestors were French Huguenots that came over here in
2 the 1700's and they settled just a few miles west of
3 here and I was born and raised in Pottstown. So we
4 haven't gotten very far and there are a lot of my people
5 buried in this area.

6 So I am very concerned when I stop to think
7 what effect Limerick is going to have on this area,
8 health and safety, economic and environmental. I
9 analyze it that they are all negative and I cannot see
10 any good of this plant becoming operational.

11 I also look back at Philadelphia Electric
12 Company and see it as a grossly mismanaged corporation.

13 (Applause.)

14 MR. BOYER: The very idea that Philadelphia
15 Electric should overextend itself so much in the nuclear
16 area when in fact it is already overcapacitated in
17 nuclear generating ability and also the fact that it
18 chose Limerick as a site, one of the poorest and
19 probably the worst site in the area from an
20 environmental point of view. The population, they had
21 no water and they didn't know where they were going to
22 get the water until very recently and they still don't
23 know really where they are going to get the water.

24 (Applause.)

25 MR. BOYER: But I know this is an

1 environmental study that we are talking about here. So
2 I would like to address the environmental issue of human
3 beings. I think sometimes we don't stop to consider the
4 effect on human beings. We look at everything else but
5 people, and there are an awful lot of people in this
6 area.

7 It would be impossible. I have talked with
8 rescue squads, with volunteer firemen, with school
9 teachers. It is impossible to evacuate this area. It
10 just could not be done.

11 It is possible, probable and probably a fact
12 that if this plant does go on line there will at some
13 point be need for evacuation. This in itself would say
14 to me that this plant does not belong in this area. If
15 we even need nuclear power at all, which I personally
16 don't think we do, plants should never be allowed to be
17 built in the proximity of the amount of people that are
18 in this area.

19 Another area, I happen to be a farmer.
20 Somebody mentioned it, and I think I jotted it down,
21 about emergency planning for farmers. Everything I have
22 read in this area has just been a farce; to leave and
23 just put a note on your door what to feed the animals,
24 or something to that effect.

25 (Laughter.)

1 MR. BOYER: I have seen things like this and
2 apparently Philadelphia Electric Company has actually
3 considered this, that when the National Guard comes in
4 they will take care of your livestock and just pack up
5 and go to these jammed highways. This is ludicrous.

6 In this area there are many small family
7 farms. There are a lot of equestrian centers with a
8 large amount of livestock. There is no way that these
9 animals could be gotten out of the area. So who pays
10 for the economic loss? Our insurance doesn't. Every
11 policy you read has an exclusion for nuclear accidents.
12 Who pays?

13 My notes I was writing as I was going along
14 here and I just want to check to see if I covered
15 everything.

16 I guess I will just end up and say, gentlemen,
17 not just who pays, but who cares? Do you care about the
18 people in this area? Do you care about this housewife
19 from New Jersey who talked about her children?

20 We in this area don't want Limerick here.

21 Thank you.

22 (Applause.)

23 MR. MOODY: Thank you.

24 Richard W. McCoy.

25

1 PRESENTATION OF RICHARD W. McCOY

2 MR. McCOY: My name is Richard McCoy, and I am
3 a fish and wildlife biologist with the U. S. Fish and
4 Wildlife Service. We are located in State College,
5 Pennsylvania.

6 The Department of the Interior and the Fish
7 and Wildlife Service has had a long history and
8 involvement with the Limerick Nuclear Power Plant that
9 goes back to 1970. Every since the first comments we
10 made on the power plant, we have raised the same issues
11 and we are still raising the same issues but only in a
12 little bit more detail now.

13 We started off by wondering about the logic in
14 siting a nuclear power plant on a river that didn't have
15 an adequate source of water, knowing full well that the
16 summertime flows dropped extremely low. We questioned
17 about the diversion of water from the Delaware River and
18 the removal of that water and its impacts on the water
19 quality in the lower river, its impacts on water quality
20 in the estuary and its impacts on salinity in the
21 estuary.

22 We questioned from the very beginning what the
23 impacts would be from the inner basin transfer of water
24 and the precedent setting implications of inner basin
25 transfer of water to make up water supply needs for

1 industrial development or for municipal development.

2 This is the only case that I can think of in
3 Pennsylvania where we have a proposal to transfer water
4 and to dump it into another stream and allow it to run
5 down that stream before it is taken out and treated and
6 used. There are other cases of inner basin transfer of
7 water, but they are always directly out of the other
8 source into a treatment plant and on to the user and not
9 dumped into an open creek channel beforehand. We are
10 concerned about what that might imply in the future in
11 moving water around Pennsylvania and in New Jersey.

12 I was sitting back there thinking about a
13 person in a canoe being swept down the river in a flood
14 situation and his cries for help are being drowned out
15 by the roar of the river. We feel like in the Fish and
16 Wildlife Service that we are being swept down the river
17 and we haven't been heard yet on some of these concerns
18 that we have been raising year in and year out. They
19 still haven't been addressed to our satisfaction.

20 I was sitting back there in retrospect
21 thinking about the sequence of events that have happened
22 in relation to the Limerick power plant. First of all,
23 you have a power plant that was sited on a river with an
24 inadequate source of water supply. So therefore you
25 come up with an environmentally damaging proposal to

1 transfer water from another basin. Then you find out
2 that that other basin that you are going to get the
3 water from doesn't have an adequate water supply of its
4 own. So you come up with a third environmentally
5 damaging project called Murrel Creek.

6 So what you started out with was a bad site
7 and you ended up with three bad projects all linked
8 together and all dependent upon each other for their
9 development.

10 What you put the Fish and Wildlife Service in
11 a position of is either opposing these other two
12 environmentally damaging projects at the expense of
13 standing in the way of allowing Limerick to begin its
14 operation on schedule.

15 We either have to go along with these other
16 proposals or we have to say that you guys have got to
17 put the breaks on Limerick until you come up with an
18 adequate water supply in the Schuylkill Basin somewhere
19 of make-up water.

20 Looking back through the records, there is a
21 period of time when the Fish and Wildlife Service was
22 not strongly vocally opposed or not vocally concerned
23 about the development of the nuclear power plant at
24 Limerick and the other associated developments that will
25 have to take place for it to operate, the reason being

1 that there were several things taking place then in the
2 early 70's that caused us to maybe be not be as
3 concerned as we are now.

4 One of those was the Tox Island Dam. There
5 was a strong possibility that that was going to be the
6 make-up water supply on the Delaware side and everything
7 would be fine. There would be plenty of water when you
8 needed it during low flows. You would just open up the
9 tubes at Tox Island. Well, that went by the wayside and
10 it has now been deferred to the Year 2000 as a
11 possibility of being developed. So now you are down to
12 where do we get the water from and you come up with the
13 idea of Merrill Creek.

14 Another thing that we began looking into when
15 things started showing up as other problems in the
16 basin, such as the salinity problems in the Delaware
17 Bay. It is kind of a subtle, slow change, a slow
18 movement of the salinity line up the bay and now all of
19 the sudden we find the Iso Halley(?) lines are
20 approaching a point where they are going to jeopardize
21 the continued production of oysters in the upper bay,
22 the sea oyster beds that are vital to the production of
23 oysters in the Delaware Bay.

24 We began to look at the history of the bay and
25 realized that there had been some subtle changes in

1 populations of fish and the distribution of plants and
2 the salinities are all tied into that. That is not to
3 say that we can point to any one reason for it. The
4 Delaware River Commission has identified several and we
5 believe there are several more which are tied into it.
6 But one of those has to be the reduction in flows coming
7 into the estuary.

8 The Delaware River is the major source of
9 fresh water input into the Delaware estuary. It is
10 important that we have enough fresh water to hold the
11 salinity levels at the places where they need to be to
12 allow the fish and the invertebrates and the plants to
13 produce and go through their live cycles in the natural
14 way that they have always done in the past.

15 We began to realize that in the last ten years
16 from 1970 to 1980 there was an increase of 530 cfs in
17 the consumptive depletive uses of water in the basin.
18 The Level B study predicts that the consumptive
19 depletive uses in the basin will double in the next 20
20 years. We began looking around, well, where is this
21 make-up water going to come from or are we just going to
22 see the river gradually dry up?

23 Other than Merrill Creek, there are no proposed
24 makeup reservoirs in the basin that are anywhere close
25 to being developed in the near future. Yet, we begin to

1 see in the last two years times when the Delaware River
2 has dropped below the target level of 3,000 cfs at
3 Trenton.

4 The Level B Study in the Delaware River Basin
5 Commission stated that there was enough adequate supply
6 of make-up water now in the basin to maintain a flow of
7 3,000 cfs in the river at all times, except during a
8 drought that was experienced during the 60's. Well, the
9 records in the last two years have shown that that is
10 not the case. There isn't enough make-up water in the
11 river available in storage now without Point Pleasant
12 and without Limerick in operation, and yet every
13 indication is that the movement is going directly on,
14 rolling on as it always has been towards issuing the
15 operating license on schedule and allowing Limerick to
16 fire up on schedule and still where is the make-up water
17 and where is the supply.

18 There are a lot of unanswered questions even
19 with Merril Creek. There are a lot of environmental
20 concerns that need to be worked out on Merril Creek
21 before it can become a reality. Is it going to be on
22 line and available for the make-up water in time for
23 Limerick to begin operation when it is scheduled to? We
24 are only talking about a couple years leeway any more
25 because everything has been rolling along without any

1 concern on the environmental side.

2 Just to show you how bad the make-up water
3 situation is, in January of 1981 the flows at Trenton
4 dropped to 2,080 cfs. I began to think, well, I don't
5 believe the DRBC has even considered a worst case
6 scenario that might occur in the middle of winter.

7 If you begin looking at the possibility of a
8 good, cold winter where all of your rainfall is tied up
9 and all of your precipitation is tied up in snow in the
10 mountains and your flows in the river have dropped low
11 because of the high snow build-up in the mountains the
12 Corps of Engineers decides to draw down their reservoirs
13 early and they decide to draw then down to the maximum
14 to allow them to have maximum flood control protection
15 come springtime when this all melts and lets loose. So
16 they don't have any make-up water available in the
17 latter part of the wintertime just before the spring
18 runoff begins.

19 You also see a depletion in the water perhaps
20 in the three New York City reservoirs in the upper
21 basin, one of the major sources of make-up water during
22 the year. Perhaps their input is being reduced because
23 of a cold winter where all the precipitation is tied up
24 in snow and ice. So their reservoirs are already down
25 and they have had a good consumptive use demand over in

1 New York City and they have pulled a lot of water out of
2 the reservoirs and there is not as much available for
3 make-up. The Delaware River Basin Commission is then
4 sitting in a position where they can't make up the water
5 they need to if they ended up in an extended dry period.

6 I don't believe that the worst case scenario
7 has been run through the computers yet. As far as the
8 modeling, which I have noticed the Philadelphia Electric
9 Company has taken Delaware River Basin Commission's
10 models and used them to the maximum to justify the Point
11 Pleasant diversion to justify Limerick's plans, and yet
12 if you go back you have to be very careful in looking at
13 the Delaware River Basin Commission's model runs.

14 The models themselves are subject to some
15 question of how accurately they are depicting, the
16 oxygen model and salinity model I am referring to, in
17 depicting salinity levels and the impact of salinity
18 levels by Delaware River flows.

19 But be that as it may, they also have to take
20 a very close look at the assumptions that went into
21 depicting the model runs. Some of the model runs that I
22 have seen use the assumption of make-up reservoirs on
23 line in the basin that aren't even on the books yet and
24 aren't even in their final design stage and aren't
25 anywhere close to providing water, and yet they ran

1 them as being there and being available so that they
2 could maintain a 3,000 cfs flow so then they could run
3 their computer runs and analyze the impact of what Point
4 Pleasant will have on oxygen and salinity in the bay.

5 You have to be very careful, I caution you,
6 when you are reviewing those projects to look at the
7 fine print on the Delaware River Basin Commission's
8 model runs.

9 We have a concern about the Perkiomen Creek
10 situation. I was talking to Mr. Bowersox who is a
11 waterways patrolman over there today and he was telling
12 me how important of a small mouth bass fishery that they
13 have in the Perkiomen Basin. Many of the tributaries to
14 the Perkiomen are already damaged and degraded by
15 industrial, agricultural and municipal discharges.

16 One one exception of importance is the East
17 Branch of the Perkiomen. It is a relatively clean
18 stream yet. In the lower end of the Perkiomen Mr.
19 Bowersox was telling me that there was a noticeable use
20 of that area by small mouth bass for spawning in nursery
21 areas.

22 We are concerned because a small mouth bass is
23 a fish that is very sensitive to changes in turbidity in
24 its spawning cycle. It is very sensitive to changes in
25 temperature. It is very sensitive to changes even in

1 water depth. They will abandon their nest very readily
2 and open it up to predation or open it up to fungal
3 attacks if something changes such as turbidity or water
4 temperature or water depth.

5 So I urge you in the preparation of the EIS
6 and the review of that that you look very closely at
7 what they are saying about the discharges in the
8 Perkiomen Creek from the proposed Point Pleasant
9 diversion.

10 Another concern we have in the Perkiomen Basin
11 which has just recently we have become aware of is the
12 ground water situation. There was a study done in '79
13 and '80 which resulted in the designation of the
14 Perkiomen Basin, as well as others in this area, as a
15 ground water protection area by DRBC because they
16 recognized that they were over withdrawing ground
17 water. The water tables were dropping because of the
18 heavy use of ground water in this area.

19 What that does to the streams is that it dries
20 them up. Springs that the stream normally cuts through
21 the ground watertable and there is a spring there, then
22 there are no longer springs. Other areas where the
23 substrate is pervious you no longer have a situation
24 where the stream flows over, but actually the stream is
25 intruding into the ground water. You are losing water

1 to ground water out of the stream.

2 They have identified a two-mile stretch in the
3 East Branch of Perkiomen downstream of the discharge
4 point from Point Pleasant which is an intrusion area to
5 ground water. The East Branch of the Perkiomen is
6 recharging ground water up there because of the heavy
7 use of ground water in that area. Nobody has to this
8 date looked at how much water will be lost to the ground
9 water as opposed to how much will be allowed to be gone
10 on downstream.

11 There are also some other areas on the
12 Perkiomen itself which have been identified as
13 potentially areas where ground water recharge is
14 occurring out of this stream.

15 Are we going to see a need for Limerick to
16 pump more than what is now proposed to compensate for
17 the water that is going into ground water in order to
18 have enough water where it reaches the intakes for
19 Limerick on the Perkiomen? If we are, then I think
20 those need to be brought out to the public and need to
21 be identified now.

22 I think that you are going to see that there
23 is going to be water coming from the Delaware that is
24 going to be recharging the aquifers in the Perkiomen
25 Basin and further reducing the flows in the Delaware

1 River and further complicating the impacts of water
2 quality and salinity intrusion downstream.

3 I would urge in the preparation of the EIS
4 that they look at the adequate storage of water in the
5 Delaware Basin for the demand to Limerick and still
6 being able to maintain flows downstream. I don't
7 believe that the supply is going to be available when
8 Limerick is ready to begin operating.

9 They need to look at the effects of the
10 Limerick Nuclear Power Plant on the depletive uses of
11 water and its effects on quality in the lower Schuylkill
12 River during low flows. There was a study done in 1976
13 that showed that in the lower reaches of the Schuylkill
14 River that 40 percent of the flow of the river at low
15 flows is a direct discharge from municipal and
16 industrial users. Forty percent of the discharge of the
17 river is coming directly out of pipes somewhere along
18 the river in a low flow situation.

19 Is Limerick going to aggravate that? Are
20 there going to be requirements in the future to have
21 more water go down the Schuylkill and require more water
22 to be pumped from the Delaware River to compensate for
23 that so that we get more flushing action during low flow
24 periods in the Schuylkill River? I don't believe that
25 question has been addressed yet.

1 MR. MOODY: Mr. McCoy, could you summarize
2 your final points.

3 Mr. McCoy: Yes. I just have three more.

4 How much water is being lost to ground water
5 in the Perkiomen that I mentioned before? What will be
6 the impacts on the small mouth bass in the East Branch
7 of the Perkiomen? What has been the cumulative effect
8 of the depletive water uses on water quality in estuary
9 and in the salinity levels in the Delaware Bay and how
10 much have the depletive water uses downstream of Trenton
11 affected the salinity levels?

12 It is all tied in and it needs to be looked at
13 as part of the overall picture of what Limerick is doing
14 to the Delaware Basin. In the event of a low flow in
15 the Delaware River of 3,000 or less, the contingency
16 plan would be to either reduce production at Limerick or
17 cut it off entirely.

18 But how long will it take Limerick to shut
19 down and how much after the decision is made to shut
20 down will it take? How much water will it take out of
21 the Delaware and still cause it to drop in flows before
22 Limerick can be completely shut down? Where will the 27
23 cfs flow come from that will have to be maintained after
24 the operation is shut down, and yet the Delaware River
25 is in a low flow condition?

1 I don't believe a lot of these questions have
2 been answered and I would like to see them answered in
3 the course of the EIS or the operating license stage.

4 (Applause.)

5 MR. MOODY: We still have ten people to go.
6 Mary Ellen Noble.

7 PRESENTATION OF MARY ELLEN NOBLE

8 MS. NOBLE: Good evening.

9 My name is Mary Ellen Noble and I live in
10 Doylestown, Pennsylvania.

11 I am President of Delaware Water Emergency
12 Group, but tonight I am going to be speaking only for
13 myself for two reasons. One is the short notice for
14 this meeting. As a matter of fact, our group was not
15 able to prepare any formal remarks in response, and,
16 secondly, partly because of the nature of what I have to
17 say.

18 We have heard a lot of frustration tonight
19 about water. Practically all you have heard about
20 tonight has been water. I think maybe you are
21 frustrated, too. You are saying perhaps why in heavens
22 name are we at this point being asked to do this?
23 Haven't these other folks done it? How did it get to
24 this point?

25 That is a question I asked myself when I first

1 got into all of this a few years back, and you can find
2 out about it the way I did. I think you have to start
3 with the Tox Island Dam. Let's start with the late 60's
4 into 1970 when the Tox Island Dam seemed to be assured.

5 It was going to provide billions of gallons of
6 water to the lower basin. At the Delaware River Basin
7 Commission you have an Executive Director. As a matter
8 of fact, his name was James Wright. He came from
9 California where they were considerably more used to
10 shifting water around than we are here, a good deal more
11 willing to do it and I think perhaps today less willing
12 than they were back then. He was quite anxious and for
13 a period of two years or a year and a half he proposed
14 strongly that the Delaware River Basin Commission itself
15 should finance, design, construct, own and operate the
16 Point Pleasant diversion.

17 To this end the staff at the Basin Commission
18 saw some customers. One was the Philadelphia Electric
19 Company who was at that point dealing with where they
20 were going to put this nuclear plant. They had a site
21 over here which sat very nicely on the bridge and they
22 wouldn't have to put in long transmission lines. They
23 have just gone through one tremendous battle putting in
24 the Keystone Line. They wanted to be close to the
25 center of their grid or near the vicinity of their grid,

1 but they were away from water.

2 Well, Mr. Wright, who was very anxious to have
3 a place to put all these billions of gallons of water
4 and had the Corps of Engineers ready to build a major
5 impoundment on the river above him, basically I think
6 said to the utility, okay, you like this site over here
7 next to your grid and we can give you the water.

8 At the same time we have got Bucks County over
9 here who had quite a little problem with a watershed
10 that has gone through a tremendous development and has a
11 tremendous runoff with flooding problems and polluted
12 streams. We will give them a wealth of water for the
13 tremendous population projections they have come up
14 with, which by the way haven't come about.

15 Back in 1960-something the proponents of this
16 plant in Bucks County said by 1980 Bucks County alone
17 will be using 16 million gallons a day of Delaware River
18 water. They seemed to be quite sure of it. With
19 encouragement from Mr. Wright also Montgomery County
20 there was a feasibility study done which was sponsored
21 by the Basin Commission. Then this marriage was put
22 together for a three-part marriage.

23 I guess what I want to talk to you about is to
24 give you that background when you are looking back and
25 saying haven't these folks done all of this? I see this

1 great stack of documents. As a matter of fact, I heard
2 a gentleman call this morning for all the reports that
3 he submitted to the DRBC.

4 I think that you have to remember that the
5 Basin Commission, to my mind, it led these folks down
6 the garden path. Mr. Wright had gone so far as to check
7 out bond counsel and figure out how the bonding would go
8 and he went to his Commissioners. Four States and the
9 Federal Government said, well, let's go with this. We
10 have got this all worked out, and they said no. He had
11 to go back. He had a few letters from folks and the
12 DRBC saying are you going to do it? I mean, what is
13 going to happen? Now you said that really the only way
14 this can be done sensibly is to have the Basin
15 Commission in control of such a complicated project, and
16 he did make that very strongly, that when you are
17 transporting waters downstream you have recurring rights
18 and you need an impartial agency to deal with it and he
19 said a whole lot of other things at that time.

20 But then he had to go back and say no, we are
21 not going to do it. Then we came to the point of the
22 construction permit licensing for Limerick and the AEC
23 said, okay, DRBC has done an EIS and that is as far as
24 we are going to go. If you look at the EIS, it wouldn't
25 even come close to being half a chapter in an

1 environmental report from an applicant the way you do
2 things today, but that was relied on in the construction
3 permit stage.

4 So that is how we got to where we are at today
5 and I have to draw the inevitable conclusion that the
6 Basin Commission has been protecting this lead that they
7 took. Now now leads us from Tox Island down to all of
8 the things we have heard tonight. As a matter of fact,
9 it may lead us back to Tox Island because I firmly
10 believe that once Point Pleasant goes in the cries will
11 go up again for Tox Island because there won't be the
12 storage, and I will tell you that the Philadelphia
13 Electric Company publicly pushes for Tox Island.

14 All right, just with that little background we
15 would also like to be able to submit detailed questions
16 and comments on the EROL. We want to know if there is a
17 time period for it and to whom we can send these.

18 A final thing I would like to say has to do
19 with the way I first learned about this. It finally
20 came to me that if I were a gallon of water coming down
21 the Delaware this could happen to me and I could come
22 down near Warren County, New Jersey and get sucked up in
23 a pump, up 800 feet of head of lard in Merrill Creek,
24 catch my breath and indeed, given them the skimming
25 regime for Merrill Creek, it might be only a few minutes

1 later that I would come right down again through the
2 same pipe in the Delaware and bubble on down to Point
3 Pleasant where I would get sucked out again by another
4 pump and go up 300 feet of head into the Branchville
5 Reservoir.

6 I think the average retention time is supposed
7 to be 17 hours there. That might be as much as I would
8 have, and I would get pumped out again up over a ridge
9 line and through a wonderful thing called a managging
10 dissipator into the East Branch of the Parkiomen Creek
11 and go some 20 miles down to Graters Ford and get pumped
12 out there. Let's see, that is one, two, three, four
13 pumps, and the up ten miles to the site. I am sure
14 there is at least one more pump at the site that I would
15 go through, and I am sure any number more and I hate to
16 think about it. When I get there I would be evaporated
17 and furnishing electricity which is what runs all those
18 pumps.

19 When I first figured that out I thought there
20 is something wrong here.

21 (Laughter.)

22 MS. McCOY: My mother said that reminded her
23 of Rube Goldberg, and I think she may be right.

24 (Laughter.)

25 MS. McCOY: That leads me to the final point.

1 What I am doing once I get there is being evaporated to
2 dissipate waste heat. Now this may not have anything to
3 do with Limerick as you have to review it, but I hope
4 you are looking forward to future times, now and in
5 future times. I don't think this economy or this
6 environment or our people can afford to think about
7 waste heat. That heat and its burden on the water
8 resources as waste heat I think is unconscionable in
9 today's economy. In today's energy balance there should
10 be a use for that heat. I wish I could see a way that
11 we could get Philadelphia Electric to go and grow
12 tomatoes with it. I have a feeling that if they could
13 sell the tomatoes in the middle of the winter with the
14 waste heat from Limerick they would have it made.

15 I will call also for a hearing in Bucks
16 County. I think you have heard a lot about water
17 tonight and I think you will hear a lot more about it
18 and perhaps more specifically.

19 When you are talking about alternatives in the
20 Schuylkill Basin, there is one that has been brought
21 forward and I don't think in any of the formal
22 documents. There is a series of desiltation basins in
23 the Schuylkill River because of the wastes from previous
24 coal mining operations. It has been put forward and I
25 think it is a very interesting idea that these could be

1 now emptied and a good deal that are full perhaps
2 recovered, lined and become water storage within the
3 Schuylkill Basin. This is an alternative which should
4 be addressed.

5 Thank you very much for the opportunity to
6 speak.

7 (Applause.)

8 MR. MOODY: Thank you.

9 Fran Scullion.

10 PRESENTATION OF FRAN SCULLION

11 GIVEN BY JACQUELINE RUTTENBERG

12 MS. RUTTENBERG: I would like permission to
13 speak in place of Fran Scullion who had to leave early
14 and I will abbreviate her remarks.

15 Francis M. Scullion is at 9639 James Street in
16 Philadelphia, Pennsylvania, 19114. She is the Vice
17 President of CANE which stands for Citizens Actin in the
18 Northeast and she is a member of the Air Pollution
19 Control Board of the City of Philadelphia.

20 She would like to address herself to the
21 plight of Philadelphia neighborhoods and the
22 overwhelming fiscal problems they are having right now.
23 There are now a quarter of a million PECO customers
24 delinquent, 40,000 Philadelphia gas delinquents, and tht
25 includes 14,000 shut-off gas users. There are 20,000

1 abandoned homes and they expect about 10,000 homeless
2 people this winter.

3 The City anticipates that gas decontrol will
4 double the price of natural gas by 1985 just about when
5 Limerick comes on line and raises the base rates and
6 very high, 40 percent according to PECO's figures and 70
7 percent according to the Office of the Consumer Advocate.

8 Water quality improvements, which will have to
9 be made because of toxins in the water, will double
10 water's costs approximately at the same time. CANE
11 feels that the Point Pleasant diversion project would be
12 a further drain on the region's economy. The local
13 business of tourism in that area will be ruined and the
14 capital tied up in Limerick and the Point Pleasant
15 pumping station could be better spent on some of the
16 improvements needed in the Philadelphia area.

17 The Point Pleasant pumping station is not even
18 necessary since the Philadelphia Water Department has
19 repeated said and repeated offered that it could supply
20 the Bucks and Montgomery County residents, and this with
21 a minimum of capital investment, any kind of service
22 that they need in terms of any amount of water that they
23 need. The plant already exists and it is not being used
24 to capacity. So why build a whole new project in these
25 capital short times when the interest rates are

1 extremely high.

2 The Philadelphia Water Department could thus
3 ease the financial burden on the customers in all three
4 counties by using its Toursdale plant to full capacity.

5 Now the reason the Philadelphia Water
6 Department has excess treatment capacity is because
7 they, like every other utility, overestimated the demand
8 that we would have in the 80's. PECO, the Philadelphia
9 Water Department and the gas works were all dead wrong
10 when they estimated how much capacity would be needed.
11 Philadelphia has had an additional loss of not only
12 population but 100,000 manufacturing jobs in the last
13 decade. The erosion of the economic base is in part due
14 to normal operations. They have been increasing normal
15 operational costs through the increased gas, water and
16 electric bills and general inflation spiral.

17 So these facts are critical today because the
18 economic effect of an acute protracted TMI type accident
19 would in addition lead to personal and municipal
20 bankruptcy throughout Philadelphia. The courts ruled
21 today that local governments will not be entitled to any
22 claims for compensation in such an event under the Price
23 Anderson Act and therefore this issue has become of
24 particular concern to the municipality.

25 The City will have to install, in addition, in

1 the absence of such an accident, its own air monitors,
2 water monitors and develop evacuation plans, and develop
3 the staffing for emergency procedures. None of this is
4 paid for by the company. This is an impact that ought
5 to be considered. Who is going to pay for it? There
6 are as yet no emergency plans for Limerick and this is
7 of great concern as has repeatedly been said by the City
8 of Philadelphia.

9 Now we are going to have limited water to
10 sustain industry in this area if the Schuylkill is
11 contaminated for several years until someone figures out
12 how to clean up such an accident. Water is the lifeline
13 of the Delaware Valley and Citizen Action in the
14 Northeast wants to be sure that the lifeline is
15 preserved. CANE is convinced that the finishing of
16 Limerick and the licensing of it is a threat to that
17 lifeline since there is no assurance against such an
18 accident.

19 CANE would like to thank you for this
20 opportunity to present their concern.

21 (Applause.)

22 MR. MOODY: Thank you.

23 James Burns, Limerick Ecological Action.

24 (No response.)

25 MR. MOODY: I guess he has gone.

1 William Leber, Green Valley Association?

2 (No response.)

3 MR. MOODY: I guess he has gone.

4 Thomas Hartmann, Keystone Alliance.

5 (No response.)

6 MR. MOODY: I guess he has gone.

7 Jacqueline Ruttenberg.

8 Do you want to speak again?

9 PRESENTATION OF JACQUELINE RUTTENBERG

10 MS. RUTTENBERG: I seem to be substituting for
11 everybody today. I am also speaking for the Keystone
12 Alliance in the Philadelphia area.

13 One of our major concerns and one of our
14 contentions before the NRC has been the need for power
15 question, and I would like to address that and complain
16 before the NRC that that is one of the very things that
17 has been eliminated from consideration. There is no
18 possibility any more of making contentions on the basis
19 of need for power.

20 I think that this is one of the most vital
21 issues before the NRC right now in these economically
22 powerless times. At present there is no lead agency
23 that deals specifically and by statute with the need for
24 power. There was a specific economic investigation
25 conducted by the PUC on the need for power with the

1 Limerick Generating Station. However, this came much
2 too late in the season to determine that a conservation
3 program, which costs per kilowatt hour say one/tenth of
4 what Limerick by PECO's own witnesses is like to cost
5 per kilowatt hour generated.

6 This came in much too late to determine that
7 that conservation program would indeed be the best
8 alternative for this area considering the declining
9 demand and lack of likelihood that that demand would
10 increase any time soon.

11 Again for the Keystone Alliance I would like
12 to complain, as everybody has, about the shortness of
13 notice as the person who did the most work, the
14 technical work on this contention was not able to come
15 up from his new job in Washington and speak for himself
16 about some of the primary subjects that are of interest
17 to us.

18 I think that in the same light that the
19 contentions of Delaware were in a rather unique way
20 accepted because no other lead agency had handled the
21 issue that the contention of need for power submitted by
22 the Keystone Alliance ought to have been accepted in
23 light of the matter by the NRC. I think that the
24 finding would have been that the need for power is sadly
25 lacking, and in fact Keystone no longer uses need for

1 power as a justification for the Limerick plant. It is
2 just simply an economic tradeoff of about how much oil
3 you can cancel with 13 or 14 cents per kilowatt hour
4 nuclear electricity.

5 I would like to also say that another concern
6 which has hardly been addressed has been the
7 socio-economic impacts of Limerick, including a job
8 cycle. There is a jobs problem created by Limerick in
9 that it creates a lot of high specialized technical jobs
10 for which highly specialized labor must be imported from
11 outside the area such that 40 percent of the jobs in
12 Limerick have to have people from outside the area
13 coming in to work on them as opposed to a conservation
14 program, a more economical conservation program which
15 could employ up to 50,000 people, including 12,000
16 construction jobs as opposed to the 7,000 jobs total
17 that would be created over the lifetime of the plant.

18 I would like to say that these environmental
19 impacts, since no other lead agency had considered them,
20 ought to be considered by the NRC. If indeed the water
21 contentions which had previously been considered to be
22 irrelevant or at least up till now were being
23 considered, then our considerations about economic
24 impact and the need for power and socio-economic effects
25 on the job situation in the Philadelphia area should

1 also be considered.

2 Thank you for the opportunity to testify. I
3 hope that the NRC rule about the need for power not
4 being considered will be reversed because I think people
5 are struggling now to justify Limerick. In light of all
6 the objectionable impacts that Limerick is going to have
7 on this area, that if we don't need it, it will be an
8 awful shame if we license it just because it was built
9 for some reason and it would be really neat if we could
10 somehow avoid this kind of confusion in the future and
11 make sure that all the alternatives in conjunction with
12 and balanced against the impact of a project were
13 considered first and try to unify procedures and you
14 don't have agencies all over the map competing with each
15 other and arguing with each other.

16 There should be some kind of certificate of
17 need legislation that does not create fights between
18 state agencies and federal agencies.

19 Thank you.

20 (Applause.)

21 MR. MOODY: Thank you.

22 Fern Brodtkin.

23 (No response.)

24 MR. MOODY: Frank Romano.

25 PRESENTATION OF FRANK ROMANO

1 MR. ROMANO: I am represnting tonight an ad
2 hoc committee made up of the environmental, consumer and
3 public interest groups who are getting together to
4 organize for this coming November election to force
5 Governor Thornberg out of office unless he prohibits the
6 restart of TMI-1 or any other yet unlicensed reactor in
7 Pennsylvania before the Nuclear Regulatory Commission,
8 the Department of Energy and the nuclear establishment
9 can prove they know how to handle the problems involved
10 in nuclear electricity generation.

11 Now I would like to say to you NRC fellows,
12 and it isn't really your department, but how many of you
13 can solve the problem at TMI? I don't think any of you
14 can and I don't think anyone in the nuclear industry can
15 solve it because it has been there for three years and
16 they don't know what to do with it.

17 In fact, this thing is so bad that the Atomic
18 Energy Act had to be an unconstitutional act because
19 they already knew something was wrong with this thing
20 and they made a part of the Act be that there shall be
21 nothing in the Act to prohibit a state from opposing or
22 individuals from opposing nuclear except on radiation
23 hazards.

24 Well, what other reason should we have to
25 oppose nuclear? They knew there would be radiation

1 hazard and they have made it part of the Act that you
2 cannot oppose it on that basis.

3 You know, we talk about other governments and
4 how they keep their citizens, but in the United States
5 we have a situation where you cannot oppose something
6 that you may know can threaten your life. They have
7 said in relation to psychological stress that you cannot
8 claim psychological stress unless there is
9 post-traumatic anxiety. What that really means is that
10 they are going to require you to play the nuclear
11 Russian roulette at least once. You put the gun to your
12 head and if you pull the trigger and you aren't killed,
13 then you can say you are afraid of it from now on and
14 you can't do it in the first place.

15 Again I say any government in this world, and
16 particularly in a democracy that says this to citizens,
17 has something wrong with it and this is why I say that
18 that Atomic Energy Act is absolutely unconstitutional
19 because we re denied the highest instinct of life, and
20 that is self-preservation.

21 Now I would like to say that the nuclear
22 reactor is wrecking the environment totally, not in the
23 sense that we spoil a little water, although that
24 absolutely is the case. The accident at TMI almost
25 ruined all of Pennsylvania on March the 28th of 1979.

1 You know, we were talking about evacuation and all these
2 kinds of things and it was really, you know, that
3 important. Now then Thornberg with Reagan is is pushing
4 nuclear again. You know, here we are going to expose
5 ourselves once again to a threat of nuclear, a nuclear
6 accident because already Thornberg has stated in the
7 paper that it is possible, and so has GPU, that there
8 would be another accident at TMI that would cripple the
9 reactor.

10 Recently they had television cameras down
11 there and found conditions and problems never before
12 encountered. Now how can the Nuclear Regulatory
13 Commission expect to have people to permit them to start
14 another nuclear reactor when they don't know how to
15 solve problems already existing.

16 This is the gist of the program and work we
17 are doing now in Pennsylvania. We call it the TMI test
18 of capability. We require the Governor to declare
19 publicly that there shall be no restart of TMI-1 or any
20 other yet unlicensed reactor in Pennsylvania before the
21 Nuclear Regulatory Commission demonstrates fully and
22 completely their capability and their ability to clean
23 up TMI-2, the crippled reactor.

24 If they can't do it, that is reason enough for
25 a demonstration that they don't have a right to expose

1 the rest of the people in Pennsylvania to another
2 accident. There are a lot more reasons why we don't
3 want this enviromentally, too, because nuclear is a
4 killer of everything. In Pennsylvania you have 11
5 percent and here is where the consumers and the miners
6 are coming in, 11 percent unemployment.

7 We have billions of dollars worth of coal, but
8 we are giving the miners and the railroad workers and
9 allied industries welfare when we could put this coal to
10 use. I have not prepared this because someone just
11 called me tonight to tell me about this thing going on
12 today.

13 So I wanted to get just that idea in, that you
14 must consier that the Nuclear Regulatory Commission and
15 the Department of Energy and the nuclear establishment
16 should not expect the people to risk again a facility
17 like you have here at Limerick when they have a problem
18 right now that they have failed to solve.

19 So I am saying to you, all the Nuclear
20 Regulatory Commission, you go back to Washington and ask
21 anybody there where they know what to do with TMI, and
22 if they don't, well, then we have a good right to keep
23 opposing this plant and not just one but all of them.

24 Thank you.

25 (Applause)

1 MR. MOODY: Thank you.

2 Carla Van Dyk.

3 PRESENTATION OF CARLA VAN DYK

4 MS. VAN DYK: My name is Carla Van Dyk. My
5 address is River Road, Loganville, Pennsylvania 08933.

6 I just want to address the concerns of one
7 portion of the community in Bucks County concerning the
8 jobs there upon the building of the pumping station at
9 Point Pleasant if that happens.

10 Taking water from the Delaware, which is about
11 an hour and a half's drive from here, and I was thinking
12 what a long distance that is to be transporting water
13 through transmission lines, will have its damaging
14 effects on business along the river in an area which
15 depends heavily on tourism for jobs.

16 There isn't much else in that river area in
17 Central Bucks County to generate revenue. There is
18 hardly any industry. The natural beauty of the river,
19 which often is about knee deep in most of its parts, is
20 the focus for rich and poor people who are drawn to the
21 Bucks County countryside for some relaxation from the
22 cities.

23 People all over the country now, and not just
24 from New York City and Philadelphia, are increasingly
25 visiting Bucks County and the river or the Canal as the

1 publicity in Bucks County has just exploded in the past
2 few years. It has become a much sought after tourist
3 area. As you know, there are many country inns there
4 where people go to dine and stay the weekends and that
5 is what many of us live off of.

6 Building a pumping station in Point Pleasant,
7 which is in the heart of the beautiful countryside and
8 part of the river valley, means closing off a portion of
9 the road to detour the traffic while they blast away the
10 rocks and dig under the canal and build the station.
11 Detouring the traffic away from that part of the country
12 is disastrous. I have seen the effects of detours in
13 the past just over a period of a few months just to fix
14 some potholes and businesses end up shutting down and
15 they don't come back. It is really bad news.

16 What will be left of the river after PECO's
17 straw keeps taking and taking and taking? Are we going
18 to have mui there? Well, people aren't going to come to
19 see mud.

20 Thank you.

21 (Applause.)

22 MR. MOODY: Thank you.

23 Deborah McCaffery.

24 (No response.)

25 MR. MOODY: Deborah was the one we were

1 looking for. That was No. 34.

2 I think we would like a few comments from Mr.
3 Novak in terms of written statements that may wish to be
4 sent in. Do you want to make a comment about that, Tom?

5 MR. NOVAK: Let me first say that any written
6 material that you wish to send, if it wasn't provided
7 tonight, you should address it to the Director, Office
8 of Nuclear Reactor Regulation, U. S. NRC, Washington,
9 D. C. 20555, Attention: Limerick Docket No. 50-352/353.

10 Let me just make a couple of comments.
11 Certainly I want to apologize on behalf of the
12 Regulatory Commission for the failure of the
13 announcement to get out. We intend it that way. I
14 think the participation tonight was extremely useful.

15 I think we will go back and if we can schedule
16 another meeting in the near future, we will do so, but
17 we will make sure we give you enough time to get
18 together.

19 (Applause.)

20 MR. NOVAK: Also, the other comment I had,
21 questions on the EROL and comments should be again
22 referred to the same address that I mentioned earlier.
23 Anything that you want to write to, just send it to that
24 earlier address.

25 There was one point that I will just mention

1 briefly. A suggestion was made that the official
2 hearings should be held in Bucks County. Sites are
3 selected by the Hearing Chairman and Members of the
4 Board. They do solicit comments and recommendations
5 from all parties, and I am sure if the interest is as
6 strong as was suggested tonight, then that would be a
7 reality.

8 I have no other comments.

9 VOICES: What is the address? Would you
10 repeat the addresss.

11 MR. LEWIS: The address is the Director,
12 Office of Nuclear Reactor Regulation, U. S. Nuclear
13 Regulatory Commission, Washington, D. C. 20555.

14 MS. NOBEL: On the EROL is there any kind of
15 time limit?

16 MR. NOVAK: As a practical matter I think
17 comments when they are received prior to the time that
18 the staff completes its technical evaluation, they would
19 allow them to take them into account and work them into
20 their evaluation.

21 I guess the DES is out next March, is it?

22 MR. ABELSON: In May.

23 MR. NOVAK: In May. So I would say certainly
24 if you could get them in within the next couple of
25 months they could be taken into account. Wouldn't you

1 say so, Harvey?

2 MR. ABELSON: Yes.

3 MR. ~~LEWIS~~^{REGAN}: I would just like to say one thing
4 to this group. I wasn't really involved in presiding at
5 this meeting, but over the past several years in an
6 earlier capacity as a Project Management Branch Branch
7 Chief in environmental review areas I have had occasion
8 to preside at perhaps ten or more of these public
9 meetings, and this group is certainly to be
10 congratulated because I have never been in a meeting
11 before where the people had such focused comments, such
12 constructive comments and such comments that were
13 strictly pertinent to the issues that were before the
14 Commission in this review.

15 So I would really like to thank you for the
16 real help that I think you have given us tonight in
17 giving us a good insight into what your real concerns
18 are.

19 Thank you.

20 (Applause.)

21 MR. MOODY: We want to thank again all of you
22 for coming, and want to thank all the officials from the
23 Nuclear Regulatory Commission who are here. On behalf
24 of the Borough of Pottstown I hope you have enjoyed this
25 evening and learned as much as I did.

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Thank you.

(Applause.)

(Whereupon, at 11:15 p.m., the public meeting
concluded.)

* * *

NUCLEAR REGULATORY COMMISSION

This is to certify that the attached proceedings before the

in the matter of: Public Meeting - Philadelphia Electric Company
Limerick Generating Station - NRC'S Environmental Review

Date of Proceeding: August 18, 1982

Docket Number: _____

Place of Proceeding: Pottstown, Pennsylvania

were held as herein appears, and that this is the original transcript thereof for the file of the Commission.

Mary C. Simons

Official Reporter (Typed)

Mary C. Simons

Official Reporter (Signature)