RAS 13897

Official Transcript of Proceedings NUCLEAR REGULATORY COMMISSION

Title:

Shearon Harris Nuclear Power Plant

Docket Number:

50-400-LR; 07-855-02-LR-BD01

DOCKETED USNRC

July 20, 2007 (11:12am)

OFFICE OF SECRETARY RULEMAKINGS AND ADJUDICATIONS STAFF

Location:

Date:

Raleigh, North Carolina

Tuesday, July 17, 2007

Work Order No.: NRC-1664

Pages 1-12

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TEMPLATE = SECY-032

SEC4-02

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1	UNITED STATES OF AMERICA					
2	NUCLEAR REGULATORY COMMISSION					
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4	ATOMIC SAFETY AND LICENSING BOARD					
5	(ASLB)					
6	+ + + + +					
7	LIMITED APPEARANCE SESSION					
8						
9	In the Matter of: : Docket No.					
10	: 50-400-LR					
11.	CAROLINA POWER & LIGHT COMPANY :					
12	(Shearon Harris Nuclear Power : ALSBP No.					
13	Plant, Unit. 1) : 07-855-02-LR-BD01					
14	·					
15	Tuesday					
16	July 17, 2007					
17						
18	1707 Hillsborough Street,					
19	Raleigh, North Carolina					
20	The above-entitled matter began,					
21	pursuant to notice, at 5:30 p.m.					
22	BEFORE:					
23	ANN MARSHALL YOUNG Chair					
24	PETER S. LAM Administrative Judge					
25	ALICE MIGNEREY Administrative Judge					
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PRESENTATION Martin Criscoe O-N-T-E-N-T-S

C-

Joseph Mangano

Cecil Parker

Herman Jaffe

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P-R-O-C-E-E-D-I-N-G-S

5:25 p.m.

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3	CHAIR YOUNG: Hello, everyone, thank you		
4	for coming. My name is Ann Marshall Young. I'm the		
5	Chair of this Licensing Board and the attorney member		
6	and that is the Licensing Board assigned to consider		
7	the regarding the license renewal application for		
8	the Shearon Harris Plant. And we are here to hear		
9	limited appearance statements from the public. We		
10	welcome you. We have four people who have signed up		
11	to speak. I see more people than that in the		
12	audience, so even if you have not signed up, you are		
13	free to speak. We have set a time limit of five		
14	minutes per person, so that everyone can speak.		
15	We can give a little leeway on that if		
16	there's extra time and you won't cut into anyone		
17	else's speaking time. To help us keep track of the		
18	time, our law clerk Zachary Kahn will be holding up		
19	these signs and then we'll try to gently remind you if		
20	you start to go over.		
21	Before we begin, are there any questions?		
22	All right, then I'm going to call on the first person		
23	whose name we have and that is Martin Criscoe, the		
24	Director of the Wake County Emergency Management.		
25	MR. CRISCOE: Yes, good evening. I'd like		
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offer some supporting comments. to I've been associated with Wake County Emergency Management since 1990 and have been intimately involved with the preparedness activities in support of the Shearon Harris Nuclear Power Plant. I've worked with the staff of --

I'm getting a signal from CHAIR YOUNG: the back that people in the back might not hear you. MR. CRISCOE: Yes, I was probably not close enough.

> CHAIR YOUNG: Okay, thank you.

MR. CRISCOE: All right, I've worked with many members of the Harris staff over the years and we have an excellent working relationship with the plant in a number of ways. We're mainly involved in the off-site emergency preparedness activities. We have a Shearon Harris Preparedness Task Force that we 18 participate in on a regular basis with the other 19 counties that touch the EPZ, the Emergency Planning 20 Zone and we meet on a regular basis. And we discuss preparedness planning, training, exercise, activities 22 with -- amongst ourselves and the members of the 23 utility.

We also organize and plan our exercise We also are activities at that forum as well.

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1	responsible for making sure that the plans and
2	procedures are trained provide training to our
3	public safety agencies, municipal agencies that
4 :	support our response to an incident at the Harris
5	Nuclear Power Plant.
6	That group has always been very supportive
7	in anything that we brought to them that we need to
8	change in our activities or add to those activities.
.9	They've always been very supportive over the years and
10	I have an idea that they will continue to support
11	those activities in the future. That's all I have to
12	say. Thank you.
13	CHAIR YOUNG: Thank you, sir. The next
14	person is Mr. Joseph Mangano.
15	MR. MANGANO: Good afternoon and thank you
16	for this opportunity. I'm Joseph Mangano. I'm the
17	Executive Director of the Radiation and Public Health
18	Project. We're a non-profit research group based in
19	New York. Our work is to do studies on the health
20	risks posed by nuclear reactors and nuclear weapons.
21	We've publish 22 journals articles in medical
22 -	journals and six books on the topic.
23	My comments today may be a little bit
24	different than what was heard earlier today and after
25	me. A lot of the discussion of today have been on
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potential health risks from the Shearon Harris Reactor. My comments will be focused on the actual health risks from the actual releases from the reactor in the 20 years it's been operating.

I'd like to -- before I get into my comments, I'd like to note that there's never been any sort of a study on -- that analyzes the emissions from the reactor and the potential risks of disease in the local area. There was on study by the National Cancer Institute but it only included reactors opened before 1982 and left out Shearon Harris.

Today I'm actually releasing a report that doesn't end this dialogue but certainly begins to put forth information in this area. The first part of the report discusses actual releases from the plant. As I think most of you know, that in a nuclear power reactor most of the radioactivity that's created is contained as high level waste but in order to operate there must be some routine emissions into the local environment.

These chemicals are actually over 100 radioactive chemicals, none of which are found in nature. They're only found when an atomic bomb explodes or when a nuclear reactor operates. They are emitted into the air and the water and they enter the

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human body through breathing and through the food chain. They are, of course, radioactive and carcinogenic and especially toxic to the developing fetus and the infant and the child.

The policy that the NRC has set is that every year each utility running a reactor must put out how much has been emitted and if the emissions are below this limit, then the reactor is safe to continue operating. Our group believes this is rather presumptive and that studies must be done to examine whether or not these low doses are, in fact, harmful. And in the report, you'll see that annual releases can vary from year to year by hundreds of times.

I also took a look at the levels in the environment, specifically in drinking water in three different locations, which is also reported by the utility to the Federal Government. For example, in 2004, the levels of beta radiation in drinking water at two sites near the reactor more than doubled from the spring until the fall, which is quite -- you'll find that similar types of unusual patterns in other years.

Now, probably the most important part are the actual health trends. Probably the disease most studied when it comes to radiation exposure is

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childhood cancer because, as I've said, the infant, fetus and child are most susceptible. Since Shearon Harris opened in Wake and Durham Counties in the 17 years of operation, the childhood cancer death rate to kids under 10 in these two counties has increased by 51 percent from what it was in the early and mid-1980s and that compares to a decline of 29 percent in both the rest of the state and the country.

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9 This shouldn't be in an area like this. It's a low This is a highly educated community. 10 poverty community and of course, the people have 11 access to world class medical care here. 12 This is a pattern that is highly unexpected. Also I looked at 13 cancer incidents. Unfortunately, the cancer registry 14 in this state didn't get going until the 1990s so we 15 16 cannot do a before and after comparison, but in recent years rates of certain radio-sensitive cancer such at 17 18 thyroid cancer, bone cancer, non-Hodgkins lymphoma, and leukemia are significantly above the average for 19 20 the rest of the state.

The conclusions here, as I've said before, this information is certainly not any sort of a definitive link between radiation and disease; however, it really should be seen as a first step. The local Health Department and the Environmental

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Protection Department should undertake further studies to investigate this further and no decision on extending the reactor's license should be made until this is fully considered. Thank you and if you'd like a copy of the report, I'll be glad to --

CHAIR YOUNG: Thank you. You're welcome to put that into the record. All right, Cecil Parker? MR. PARKER: Good evening. My name is Cecil Parker. I currently serve as Fire Chief for the Town of Holly Springs. Prior to doing that, I served as the Police Chief for the Town of Holly Springs for 14 years. I've had the opportunity to work with Progress Energy, more specifically the Harris Plant for better than 20 years now in my capacity as a public safety official for both the Town of Holly Springs and prior to that Wake County.

17 In all of those 20 years, we have only had 18 a positive experience in working with the Harris plant 19 They have always been more than and its staff. 20 willing to provide any training that we may need. 21 They have worked with us in providing us tours of the facility. We have annual training at the facility. 22 23 We work with their fire brigade many, many times a 24 year at the facility. They come to our fire station 25 annually to provide training. We, every other year,

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have evacuation drills and again, Harris provides any support that we need for those drills. They have been very, very supportive to us. We appreciate what they do. We would like to continue to offer our support and hope that they continue to do a good job as they have in the past, and I trust that they will and I will conclude that by just saying that we're very thankful for them being there and the support that they've provided us and the excellent job that they've done. Thank you.

11 CHAIR YOUNG: Thank you. All right,12 Herman Jaffe?

MR. JAFFEE: I thank you for calling me. 13 My name is Herman Jaffee and I have been involved in 1415 many work features of safety of nuclear power plants back in the '70s. I'm a little old, I'm 81. 16 So I 17 have some experience and I'd like to just give you a 18 little advice, if I may. The Harris reactor is our 19 nation's newest unit going on line January 1987. Of the approximately 128 units built, only 103 are still 20 working. Twenty-four were closed early due to safety 21 22 problems.

At this early point in the work cycle of Harris, who can predict how it will be working in 30, 40 years from now. We do know that it's had several

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small fires due to faulty construction materials used and the new NRC reduced the safety requirements. Harris is a complex machine that has many moving parts designed for a 40-year work cycle from 1987. If you bought a car that has a useful life cycle of 100,000 miles, would you try at its 50,000 mile work point to decide to work it for another 150,000 miles? I don't think so.

No prediction on the safety or work life of its parts can be made for 40 years from now. It's too early in the work cycle of the reactor. We should wait 15 years to try to make a prediction on the useful work cycle of the reactor for another 20 years use. Asking you to extend the license at this time is not fair to you and I request that you delay the request for about 15 years. Thank you.

CHAIR YOUNG: Thank you. Did you have something in writing that you'd like to give us?

JUDGE MIGNEREY: Thank you.

CHAIR YOUNG: Okay, thank you. You get better with age, huh? I have something to look forward to. There are no more names on the list; however, anyone who's here is welcome to give your comment. Is there anyone here who would like to speak who did not sign up? You're sure?

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(Off	the	microphone	remarks)

CHAIR YOUNG: We'll stay here for maybe another half hour and see if anyone comes. And also anyone present can tell people that they can submit comments in writing and I think the notice, the press release and the notice that was in the Federal Register provided information on how to do that. So, all right, we'll just go off the record now and wait a little while to see if anyone else shows up who may get off work at 6:00.

(A brief recess was taken.)

CHAIR YOUNG: Okay, just on the record again. This is Judge Young. Let the record show that it is approximately 6:30 and we've come in a couple of times to check to see whether there was anyone else who had a comment to make and it looks like everyone has left except the staff counsel and one member of the staff and the people from our office and our security guard and so I think it's safe to close this hearing and go off the record. Thank you.

(Whereupon, at 6:25 p.m. the hearing in the above-entitled matter concluded.)

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CERTIFICATE

This is to certify that the attached proceedings before the United States Nuclear Regulatory Commission in the matter of:

Name of Proceeding: Shearon Harris Nuclear

Power Plant

Docket Number:

Raleigh, North Carolina

50-400-LR; 07-855-02-LR-BD01

Location:

were held as herein appears, and that this is the original transcript thereof for the file of the United States Nuclear Regulatory Commission taken by me and, thereafter reduced to typewriting by me or under the direction of the court reporting company, and that the transcript is a true and accurate record of the foregoing proceedings.

Sam Wojack

Official Reporter Neal R. Gross & Co., Inc.

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