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for Big Rock Point.- Public Meeting

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U.S. NUCLEAR REGULATORY COMMISSION

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BIG ROCK POINT

REVIEW OF THE LICENSE TERMINATION PLAN

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PUBLIC MEETING - EVENING SESSION

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TUESDAY

AUGUST 5, 2003

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CHARLEVOIX, MICHIGAN

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The meeting was held at 7:00 p.m. at the
Charlevoix Stroud Hall, 12491 Waller Road,
Charlevoix, Michigan, Don Smith, Moderator,
presiding.

PRESENT:

DON SMITH, MODERATOR

BILL SNELL

CHRIS MILLER

JIM SHEPHERD

DAN GILLEN

KURT HAAS

KEN PALLAGI

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(7:02 p.m.)

1
2
3 MODERATOR SMITH: I'm Don Smith, and I
4 chair the Big Rock Citizens Advisory Board, and I've
5 been asked to moderate tonight's meeting and
6 introduce the guests and kind of keep things moving
7 when we get into the question and answer. So the
8 purpose of the meeting tonight is the preliminary
9 review of the license termination plan for the
10 nuclear plant at Big Rock. To my right we have four
11 distinguished guests from the Nuclear Regulatory
12 Commission; to my left, two distinguished guests
13 from Consumer's Energy, and they will be presenting
14 updates as to the progress of the decommissioning
15 and also the license termination. To introduce the
16 NRC panel, we have Dan Gillen, who is the chief
17 decommissioning expert of the NRC. Dan?

18 MR. GILLEN: I'm going to come up front;
19 a little easier for me to look at the slides and
20 talk to you at the same time. As Don said, my name
21 is Dan Gillen. I don't know if I would characterize
22 myself as the expert of decommissioning because I've
23 only been assigned to this position for about three
24 months. However, based on my gray hair, you can
25 tell I've been at the NRC for more time than I'd

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1 like to tell you; 28 years; involved at least in
2 reactors at the beginning of my career, then mostly
3 in waste management areas, draining, recovery,
4 low-level waste, high-level waste, all those issues,
5 and most recently now in decommissioning.

6 I'd like to introduce the team of NRC
7 people that we have here tonight. After I'm done
8 with a couple of introductory slides, I'm going to
9 be turning it over to Jim Shepherd. He's the
10 project manager for this project; works in my
11 branch. We have Chris Miller, who's the chief of
12 the decommissioning branch in Region 3; and Bill
13 Snell is the health -- senior health physicist in
14 Region 3. I have Gary Purdy; he's the health
15 physics reviewer on this project; Chris Grossman,
16 he'll be doing the dose modeling; Jon Peckenpaugh,
17 who's our groundwater hydrologist; Cornelia
18 Burkhalter; she's a licensing assistant in our
19 branch; Gerry Stirewalt is a NRC contractor, is a
20 geologist involved in modeling; and -- let's see.
21 Am I missing -- Tamika (phonetic) -- Tamika is over
22 here (indicating) operating the slides. She's one
23 of our nuclear safety interns.

24 (Off the record interruption)

25 Tamika, if you would go to the next

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1 slide, please? I just wanted to let you know --
2 I've, you know, introduced everybody here, all from
3 various parts of our agency. But I want to show the
4 relationship of our involvement by this partial NRC
5 organization chart. Under the Commission, we have
6 the executive director of operations, the EDO, and
7 the major NRC offices all report to him. NMSS is
8 where we -- where I reside and my branch. and as
9 you can see, we're one of the major offices;
10 alongside us, NRR, which is the Office of Nuclear
11 Reactor Regulation. NMSS stands for Nuclear
12 Material Safety and Safeguards. The relationship
13 there is that Big Rock Point was under the auspices
14 of the NRR for most of -- for its entire life, up
15 until the point where it decided to decommission.
16 At that point in time, reactors turn over their
17 activities to NMSS, particularly to -- under there,
18 the Division of Waste Management, which is where our
19 branch, the Decommissioning Branch, DCB, falls.

20 Alongside us within the same division,
21 we have Environmental and Performance Assessment
22 Branch, EPAB,

23 E P A B. Some of the technical reviewers that
24 I introduced earlier work in that group. Also
25 out there -- also reporting to the EDO, we

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1 have the regional offices, of which we have
2 four; one of which is Region 3, Chicago, that
3 is involved with all the activities, doing
4 inspection at this facility and other
5 facilities. And as I introduced, they will be
6 giving a presentation following Jim's
7 presentation on the inspection activities at
8 this site. And before I sit down, I just
9 wanted to discuss that all of NRC's
10 activities -- we're involved with licensing,
11 inspection -- all feed to our four main
12 performance goals, the first one of which is a
13 prime goal of maintaining safety and
14 protection of the environment.

15 The second goal, partly why we're here,
16 is to increase public confidence. We have to
17 interact, as we go through all of our processes, in
18 an open manner with the public, and that's why we're
19 speaking to you tonight, to keep you informed of our
20 activities. Thirdly, we're involved in increasing
21 our efficiency and effectiveness. That's one of our
22 goals. And, lastly, it's to reduce unnecessary
23 regulatory burden; not to reduce regulatory burden,
24 but only with the burden that would be unnecessary.
25 And with that, I will now turn it over to Jim to

1 give a presentation on where we stand on the license
2 termination plan review.

3 MR. SHEPHERD: Thank you, Dan. Good
4 evening. As he said, I'm Jim Shepherd. I am the
5 project manager for the NRC overseeing the
6 decommissioning at Big Rock. Briefly, our
7 presentation -- to reiterate, we'll talk about the
8 review process of the license termination plan and
9 the status of our review of the Big Rock plan, then
10 Consumers will talk about the contents of the plan,
11 and then, for the rest of the evening, we're here to
12 listen to comments, questions that you all may have.

13 To begin with, all license termination
14 plans go through a review. The first step is called
15 the acceptance review. We look at it to determine
16 if all of the pieces are present in the plan that is
17 submitted. And then we take a closer look at -- one
18 more -- a closer look at several areas that, through
19 experience, we've found we need a more detailed
20 look, and these include the land use scenario, the
21 residual concentration. You'll hear the term
22 "DCGL," Derived Concentration Limit, and the final
23 status survey plan. Once we determine that all of
24 the pieces are present and in the appropriate level
25 of detail, we then issue a Federal Register Notice

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1 so that we notify the public that we have received
2 the plan and are considering it and also offering an
3 opportunity for hearing.

4 Once the acceptance is completed, we
5 then begin the detailed technical reviews. And the
6 purpose of these is to evaluate all of the
7 assumptions that the licensee made of the data that
8 is presented, of the calculations, and this -- the
9 result of this technical review, then, is the basis
10 for the safety analysis -- the safety evaluation
11 report and the environmental assessment. As a rule,
12 we will end up with a request for additional
13 information from the licensee. There will be
14 something that we need to fill out; the EA or the
15 SER. Once we get that information back and evaluate
16 it, we then finalize the safety evaluation report
17 and the environmental review. We then publish the
18 EA, and 30 days after we publish the EA, we issue a
19 license amendment authorizing the licensee to
20 implement the plan.

21 The principal areas of focus in any
22 review, first of all, is the release criteria that
23 is agreed upon between the licensee and the NRC.
24 Secondly, we look at the final survey plan. The
25 survey plan is how the licensee will demonstrate to

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1 us that, in fact, they meet the criteria. And also
2 we look at any material disposal, especially that
3 that is being transported off site either to a
4 nuclear processor, a waste disposal facility or, in
5 the case of Big Rock, a landfill. Our review; the
6 license termination plan was submitted to us on the
7 1st of April. The letter from us back to Big Rock
8 that said we accepted the plan is dated the 26th of
9 June. In early July, we started our technical
10 review. The Federal Register Notice was issued last
11 week. Well, it's dated the 29th of July. And I
12 believe a copy is in the handout package. And, of
13 course, this evening we're having the public
14 meeting.

15 Our plan for the review is, in about six
16 months, we will have completed our technical reviews
17 and would send in questions to the licensee, the
18 requests for additional information, and in about a
19 year, we would expect to complete the safety
20 evaluation and the environmental report. And the
21 environmental report then will be announced in a
22 Federal Register Notice. Those lines that have
23 shown in green are places where we are particularly
24 interested in getting public feedback. Once we've
25 published the Federal Register Notice, we will then

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1 issue the license amendment to the licensee, and
2 they can then implement the plan.

3 One of the questions we get is, what
4 about spent fuel? As it stands now, the spent fuel
5 has been transferred to an independent spent fuel
6 storage installation on site under a general Part 72
7 license, which means the Part 50 license will stay
8 in effect until the fuel is removed from the site,
9 which right now is estimated about 2012. That's
10 somewhat a function of DOE and their progress at
11 Yucca Mountain. Part 72 has in it the general
12 license requirements for safely managing the fuel
13 while it's on the pad, and Region 3 then implements
14 the storage system requirements through the
15 inspections, and Bill will talk about that a little
16 later. So with that, I will let them move to the
17 inspection program, and to start that will be Chris
18 Miller, the branch chief of the decommissioning
19 branch in Region 3.

20 MR. MILLER: Thanks, Jim. I'm just
21 going to sit here (indicating), if you don't mind.
22 I just wanted to give you a couple of short notes
23 about what we do in Region 3. We perform all of the
24 reactor and materials inspections in the Midwest
25 area, and in particular, my branch deals with the --

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1 any of them that are undergoing decommissioning like
2 sites that would be similar to Big Rock. We also
3 have LaCrosse, Fermi I, Zion, Dresden I; have about
4 eight inspectors that vary from health physicists to
5 engineers to general inspectors, and we also have
6 the support of security inspectors who come up and
7 help us review the physical security at the site.

8 The goal of the inspections is to verify
9 that what these guys put into the -- or ensure are
10 in the safety evaluation report, what's in the
11 license termination plan, the final safety analysis
12 report; that all of those key aspects of the
13 decommissioning process are adhered to. And so
14 we'll send inspectors up on a periodic basis from
15 our Region 3 office and -- to verify that those key
16 aspects are being accomplished. It's not a
17 100-percent. We don't view everything, but on some
18 of the key steps, when the reactor first shut down,
19 we're really interested in the safety of the fuel,
20 the security of the site and the general
21 health-physics practices.

22 And then it -- and then it moves as the
23 licensee starts to perform remediation and clean up
24 the site, we start doing side-by-side inspections.
25 While they're remediating, we're looking at how

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1 they're performing that work. And, finally, when
2 they get to the final status survey, we're
3 side-by-side verifying that what they think they're
4 getting for their readings for the final look is
5 what we're getting, and we call that a confirmatory
6 survey that we do at the end. So we're involved in
7 each of the steps. We have a lead inspector
8 program. We have one key inspector that manages
9 each of our sites. And for this site, it's Bill
10 Snell, and so I'm going to turn it over to Bill.

11 MR. SNELL: Thanks, Chris. Good
12 evening. I've been the lead inspector of Big Rock
13 for about the last four years or so, been in the
14 region about 20 -- well, a little over 20 years.
15 And let me tell you a little bit about our
16 decommissioning power reactor inspection program and
17 how we pull it all together. Basically the purpose
18 of the program is to establish a policy to ensure
19 that resources are adequately --

20 (Off the record interruption)

21 MR. SNELL: It is just basically to put
22 a program together to ensure that the sites are
23 being inspected, to make sure the program that we've
24 approved the licensee to implement is indeed being
25 implemented as it was laid out. We do that -- we

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1 have what we call Manual Chapter 2561; that's a
2 power reactor decommissioning inspection program.
3 It talks about how we're supposed to allocate
4 resources and people. The main thing we do is
5 verification by observation. That's why we send
6 inspectors out to the site. We want to see what the
7 licensee is doing. We compare what they're doing
8 with all the procedures, regulatory requirements,
9 other commitments they made, to make sure that
10 they're actually implementing what they've committed
11 to implement and -- in accordance to the regulation
12 that we've laid out.

13 You can go on to the next slide there.
14 One of the things to make -- also make sure that all
15 the processes, techniques that they put in place
16 actually do what they say they're going to do. I'm
17 sure a lot of you are familiar with the bulk
18 monitoring system that's put in place. This is a
19 perfect example. Here's what we say we're going to
20 do. We go out to make sure that it's going to do
21 what they said, it actually works as it was supposed
22 to work, and that, you know, they're being
23 applied -- these systems are applied properly and --
24 so that the decommissioning -- it tracks like it's
25 supposed to.

1 And we like to track trends in
2 performance. If we see things are going downhill,
3 that's when we're going to step in and be a little
4 more active. We have latitude to, you know, put
5 more resources where we want, when we want, and the
6 program provides us that latitude to make sure that
7 the -- that the licensee is not, you know, in a
8 declining performance, but continues to, you know,
9 decommission the plant, at -- you know, at a high
10 level of efficiency and effectiveness.

11 We do this through inspection
12 procedures. Our program has -- I don't know. I've
13 never really counted them -- maybe 15 different
14 inspect- -- primary -- what we call our core
15 inspection procedures that are laid out for
16 inspectors to follow. This is to ensure that any
17 decommissioning inspector, at any power reactor
18 anywhere in the country, is basically doing the same
19 thing. We're looking at the same kind of things,
20 you know, ensuring that we're consistent in, you
21 know, our safety policies that we're trying to
22 promote throughout the United States.

23 And, again, the procedures that we use
24 are really dependent on what the licensee's
25 activities are at the time. As you go through a

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1 licensing -- or a decommissioning process, you know,
2 things change, the plant changes, you know. So the
3 procedures we use may differ as we go along. We
4 pull all this together with what we call our master
5 inspection plan. For every facility, we put
6 together, every year, a plan of activities over the
7 next year, decide how many hours of effort we're
8 going to put into the plant, and it all depends on
9 the stage of the decommissioning. At Big Rock
10 Point, over the last several years, they've put a
11 lot of time and effort into the dry cask storage
12 project. All the fuel is now out on the ISFSI pad
13 so, you know, all our emphasis on that, you know,
14 can be set aside. That effort's done. The
15 procedures we use to inspect the ISFSI and all the
16 dry cask aspect is behind us, and we're moving into
17 the more active decommissioning and decontamination
18 activities and the dismantlement aspects to the
19 plan.

20 In developing these plans -- you can
21 move it along there -- plant design comes into play,
22 what kind of a plant it is, you know. Is it on a
23 river? Is it on a lake? Does it have cooling
24 towers? Does it not have cooling towers? Did they
25 have spills in the past that have to be cleaned up?

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1 Is there groundwater contamination? All these
2 things come into play in us determining, you know,
3 what our effort is going to be at the plant. We
4 look at the licensee organization, how well they
5 perform, what their schedule is for activities.
6 Some plants will just go into a safe store and just
7 put the fuel in the fuel pool and let it sit there
8 for ten years and decay before they start
9 decommissioning. Other plants, like Big Rock,
10 immediately went into a decommissioning status. So
11 all these things come into play when we put together
12 our master inspection plan. And this is a living
13 document. As the year goes by, things change.
14 We'll allocate more resources, if we need to; if
15 performance is particularly well, we may back off a
16 little bit and put our resources elsewhere.

17 For Big Rock Point, we have our core
18 inspection procedures. These are the ones that we
19 expect to be doing over the next year. You can go
20 ahead and fill that page out. These are the
21 different modules that we're going to be looking at.
22 It's just -- basically we look at facilities
23 management and control; has to do with how well
24 they're managing the facility; audits that they do;
25 self-assessments; corrective actions; when problems

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1 are identified, how well they basically manage their
2 own program. We're not here all the time. I get up
3 here about once a month for three or four days,
4 sometimes more often, sometimes less, depending on
5 what the activities are that we want to watch. And
6 so we look hard at the licensee's own organization
7 and their capability to, you know, self-identify
8 problems and correct them when we're not here to be
9 watching.

10 Next one; maintenance and surveillance
11 is something we look at; how well they're
12 maintaining their equipment and facility, you know.
13 Simple things from general housekeeping have to --
14 you know, are important in how well you're
15 maintaining the facility because that can be
16 reflected back on how much radiological dose workers
17 get. Of course, radiological safety is the biggie
18 that we look at. We're certainly concerned with,
19 you know, dose to people. Sort of in a nutshell,
20 the two primary areas I focus on are -- one is just
21 radiological dose, dose to workers, people working
22 at the site. Are they working safely? Are they
23 keeping dose as low as reasonably achievable, which
24 is ALARA, which is a big acronym in the NRC. And,
25 of course, we're always looking to make sure that

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1 they're minimizing dose whenever possible.

2 The other thing I concentrate on is
3 keeping the source term on site. As long as they
4 keep all that radiological activity where they want
5 it at the site, then you don't have to worry about
6 any out in the public, where, you know, you can
7 impact members of the public. So, you know, we look
8 real hard at making sure that they control the
9 material and keep it -- keep it under control, safe
10 and handled properly so none of it gets off site,
11 where they don't want it. That's essentially the
12 inspection program that we -- that we implement
13 here. Big Rock; I think, next year, we're probably
14 going to be in the 3- to 400-hour range of resources
15 that we're going to allocate to the site, and as
16 they go more into, you know, surveying, buildings,
17 materials, equipment for disposal, we're going to be
18 putting more of our resources into that area also.

19 MR. GILLEN: I think there's one last
20 slide, isn't there?

21 MR. SNELL: Is there one more?

22 MR. GILLEN: It's just the contact for
23 all of us.

24 MR. SNELL: Contact.

25 MODERATOR SMITH: I'd like to compliment

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1 the Nuclear Regulatory Commission members for
2 keeping very timely. They were allowed 40 minutes
3 for those presentations. They did them in 22
4 minutes. Very good. On the other side, Consumers
5 Energy has an explanation of the LTP. They've been
6 allowed 15 minutes, and I'd like --

7 MR. HAAS: We'll do it in 35.

8 MODERATOR SMITH: You're not getting
9 their extra time, so Ken -- or Kurt Haas is going to
10 take it from there.

11 MR. HAAS: Thank you, Don. My name is
12 Kurt Haas. I'm the site general manager at the Big
13 Rock project for Consumers Energy. I'm essentially
14 responsible for the safe and efficient conduct of
15 all operations at the project. I appreciate the
16 opportunity to come together tonight, joined with
17 members of the NRC staff and the public at large to
18 talk about our license termination plan. You know,
19 during plant operation and continuing now into
20 decommissioning, our first priority at Big Rock has
21 been safety; the plant operate it safely, the plants
22 being decommissioned safely.

23 And the license termination plan that
24 we're talking about here tonight describes how we
25 will ensure that the site will be safe for any

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1 future use. One of the philosophies we have at the
2 project is to go anywhere at anytime for anyone to
3 talk about what we're doing, what our plans are, how
4 we're progressing with the project and to listen to
5 the questions, concerns and ideas of our
6 stakeholders. So I thank you all truly for joining
7 us here tonight, because by being here, you're
8 helping the site to achieve its vision.

9 The vision for the project is simply
10 this: To restore the site in a manner that brings
11 praise from all our stakeholders. That's the local
12 community, the public at large, our regulators, our
13 critics. Your involvement is what makes that vision
14 come into fruition. I'm going to turn it over now
15 to the detailed discussion about what makes up our
16 license termination plan to Ken Pallagi, who is the
17 radiation protection and environmental services
18 manager for the project. Ken?

19 MR. PALLAGI: Thanks, Kurt. Good
20 evening. How's everybody doing? Good, I hope.
21 It's a little warm in here, but this is okay. Tim,
22 if you would, please? Okay. The license
23 termination plan as proposed to the NRC has provided
24 details of their --

25 (Off the record interruption)

1 MR. PALLAGI: As they described their
2 review process, I'm going to give you some insight
3 into our process of developing and writing, putting
4 that package together; a very healthy document in
5 size, about the size of a Harry Potter book, but the
6 great part about this is there's nothing here we had
7 to make up. The Nuclear Regulatory Commission
8 provides to us the content and the format and the
9 type of detail that we have to provide within that
10 document. Another important point about this plan
11 is, as we authored the plan on site -- it wasn't
12 just us authoring it and submitting it, but it went
13 through a very healthy review process over and over
14 and over. We used our technical experts on site.
15 We used our site management folks; you know, as Kurt
16 can attest to over 20-some years of experience.
17 He's been to work at other facilities and brought
18 that experience with him.

19 We also used our safety review
20 committee, some smart folks on site that their
21 primary focus is to review our operations for
22 safety, and we've also used some off-site
23 independent safety folks that we've brought in;
24 again, industry experts; to look at that plan. And
25 also, prior to submitting that, we did share that

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1 with the State DEQ so they had an opportunity to
2 look at that and provide us any comments. As Mr.
3 Shepherd provided earlier on, we submitted that back
4 on April 1st, 2003, so I'd like to add, I met my
5 schedule.

6 Okay. What I'd like to do now, because
7 of the terminology we use, to give you a visual idea
8 of how the plant is going to dismantle and what that
9 means. What you're going to hear a lot of is a
10 term, in our process, will be going to a Greenfield
11 condition. So this is fairly close to what the site
12 looks like actually today. Maybe a few of the
13 tractor-trailers in the upper left aren't there.
14 One thing I want you to note on the -- up near the
15 stack, the red and white -- to the left, that open
16 field is a septic field area, so you know what that
17 little square in the middle of all the trees is.

18 Tim, if you would, the next slide?

19 Okay. If you can tell, there are access control and
20 the service building, which are in the lower left
21 portion of the turbine building, have disappeared.
22 As indicated on the slide there, that work -- the
23 demolition will be completed in 2004 -- March of
24 2004. Okay. Tim? All right. The next one, you
25 can see the turbine building is gone. That's the --

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1 where the turbine used to be, the control room,
2 heating boiler room, maintenance facilities, all of
3 those have now been dismantled, and that's going to
4 be completed by June of 2004. All right.

5 Off-gas stack, the big -- the big
6 navigational aid that you can see from Lake
7 Michigan, has been removed. All right. Tim, if you
8 could. Now you see the containment building
9 structure is gone, the screen house is removed, and
10 what you see there that's important is, from a
11 survey perspective, my organization now has total
12 access to where the plant used to be, different from
13 a plant that would leave structures remaining. We
14 have the ability to go to the entire site and survey
15 it.

16 Okay. Next one, Tim. Okay. Final
17 structures demolished by January 2006. At this
18 point is when we'll be conducting our final site
19 survey. And some important things to see here and
20 realize is, we really only have three remaining
21 features from plant operation. Again, some trees
22 have grown in, but the septic field is still there.
23 Because that is a septic field, we've talked with
24 the State, and they've requested we leave that
25 there, and that will just be surveyed through the

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1 plan. You can't see, but in the water is the intake
2 canal, intake piping. That stretches out about,
3 well, 1,500 feet into the lake.

4 We've talked to the corps and the State,
5 and due to the ecosystem, they would prefer that
6 that structure stay there. We will plug that up so
7 the occasional diver wouldn't be able to have access
8 to it, and the former break wall, which is not
9 former -- it's still there -- will remain, and,
10 again, that is -- I believe the corps looks at that
11 as a soil erosion issue -- shoreline erosion.
12 They'd like that to stay in place. And after all of
13 us -- our work is done, the State and the DEQ, the
14 trees will grow, and this is a Greenfield site
15 available for unrestricted use. All right, Tim.
16 Thanks.

17 Okay. There are eight chapters to a
18 license termination plan. The first chapter
19 provides general overview. It provides an executive
20 summary of the plan, as just any document would do.
21 But importantly it provides general site
22 information, such as the property description, where
23 we're located, those type of things. It provides a
24 brief summary of each of the remaining chapters, so
25 you can quickly get an idea of what follows. Our

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1 licensing approach; as Mr. Shepherd mentioned, we'll
2 maintain our Part 50 license until the fuel is gone.
3 Again, the Greenfield definition -- and that's kind
4 of what I just walked you through with the -- with
5 the pictures -- and also if there be a need to
6 revise the process, it is -- that process is
7 contained within the LTP and obviously follows the
8 regulatory process.

9 Okay. Chapter 2 is Site
10 Characterization. The information contained in here
11 took us approximate- -- well, we actually started
12 before the plant shut down -- shut down, so it's
13 probably a seven-year process, but mainly focused on
14 three years' worth of activity to get the
15 information, and it contains and quantifies residual
16 contamination, the radiological condition of the
17 site; describes the industrial activity area. And
18 if you see there -- this is a great map -- that's
19 580 acres to the property. You can see the tiny
20 little square up in the center; the plant. That's
21 the focus of the work obviously. And for those of
22 you -- are local to the area, you certainly know
23 that the remainder of the property is primarily
24 cedar swamp and has been the way it's been for
25 hundreds of years, untouched, and it remains so

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1 today.

2 Again, on the bottom, this chapter
3 includes a historical site assessment and our
4 analytical methods. Historical site assessment is
5 our review of plant operation, plant documentation,
6 interviews with operating personnel, retirees,
7 community members, just to gather information to
8 provide us any insight into where we would need to
9 look to understand the radiological characterization
10 of the facility. It also contains a hydrogeological
11 assessment. That's a look at the different aquifers
12 and the water flow underneath the site. And, again,
13 a wrap-up in the findings of the radiological
14 condition of the facility.

15 Chapter 3 provides the remaining
16 decommissioning activities as found formally in the
17 PSDAR. But what it does do, it talks about the
18 things that we have completed, what we are currently
19 doing and our future decommissioning activities.
20 And as you can see from the picture here, that's the
21 reactor vessel container heading into the plant.
22 And if you look at that truck, I'd put that in the
23 category of state-of-the-art technology to be able
24 to haul something that big over the road safely. So
25 we employ those techniques, and we also employ some

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1 routine techniques, like wiping things down and
2 cleaning things up. So we see the gambit of
3 techniques to use -- we use to decommission the
4 facility.

5 Okay. Tim. All right. The remediation
6 plans, and this section solely focuses on our
7 remediation methods and techniques for cleanup of
8 the radiological contaminants on site. Our
9 characterization and our estimate of the amount of
10 soil that we will remove as being contaminated, on
11 the low end, is 30 cubic meters, on the high end,
12 150. And if I can explain, the 30 cubic meters is
13 what we look at as a surgical cleanup, and that
14 would be low tech, using shovels in the specific
15 area to remove the contaminated soil. If we have to
16 use a larger piece of equipment like this
17 (indicating) to remove that soil, obviously it will
18 take more soil with it, and that would be the high
19 end. But all in all, when you take a look, that
20 equates to no more than 3 to 12 typical dump
21 truckloads of soil. So that kind of parallels; a
22 very small site, a very clean site, minimal
23 contamination.

24 Chapter 5, Final Status Survey; as Mr.
25 Shepherd mentioned, this is an important section.

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1 This is how we describe how we will follow the
2 regulatory process using MARSSIM to survey the site.
3 Obviously the intent of that survey is to allow us
4 to validate we meet the 25 millirem per year for
5 unrestricted release. It includes NRC's guidance on
6 how to survey soil and groundwater, and that's when
7 I mentioned MARSSIM. But there are many regulations
8 which I'm sure the NRC would provide you with, if
9 you really want to read and have some fun. You
10 laugh. It's good reading.

11 Okay. And important in this section --
12 I mentioned that early on -- is it -- it is our
13 intent to remove all the underground foundations and
14 structures. So just as this (indicating) building
15 here, if there was a concern of a contaminant being
16 here, and if you put a couple cores through, you
17 would be looking at a couple specific areas. We
18 will have access to the entire ground, the
19 excavation site where the plant was. So it makes
20 our survey, at least in my mind, much, much simpler
21 than some of the other ones. And we all know, when
22 things are simpler, they seem to go much better than
23 when they're hard.

24 Tim, if you would, please? Okay.

25 Chapter 6, Compliance with Radiological Release

1 Criteria, is a very technical section of the
2 document. It provides the basis, the computer code,
3 using our radiological data, to validate and derive
4 at the DCGL's, the term you heard, to meet the 25
5 millirem per year. And obviously we are using
6 NRC-approved codes; RESRAD; and we're using the
7 resident farmer scenario. Mr. Shepherd mentioned
8 the use scenario. This is a very conservative
9 scenario that's -- a person would live here on site
10 and farm.

11 Chapter 7, update to the decommissioning
12 costs, a very small chapter; it just provides an
13 estimate of our remaining costs, and it compares
14 that to our present fund and to ensure that we are
15 able to meet our commitment to fund the project.
16 And Chapter 8 is the Supplement to the Environmental
17 Report. Its purpose is to describe any
18 environmental impact and change. And, of course,
19 the change in this case is going from an industrial
20 facility to a Greenfield. We have evaluations in
21 there of threatened and endangered species. We do
22 have three threatened laurel, fonda (phonetic) -- no
23 fonda. No animals -- three plant species on site.
24 Water quality; we look at the impact of the plant
25 operation and decommissioning on the water.

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1 Archaeological resources; we've completed a phase I
2 and a phase II study and are in the process of doing
3 a judicial cultural study related to the Big Rock,
4 and environmental justice. And, of course, we know
5 that's -- would we impact a community by building
6 and doing something in that community? But, again,
7 we're the reverse. We're removing the site and
8 returning it to Greenfield. And those are the eight
9 chapters, and, again, that's -- that will be the
10 site when we're completed with our portion of the
11 project.

12 MODERATOR SMITH: Thank you, Ken.
13 You're right on time; right on time. That leaves us
14 ahead of schedule for the question and answers. And
15 there are some ground rules as far as public
16 participation. If you do want to ask a question, we
17 do ask you to come forward and use the microphone by
18 Ann Holmes, our recorder. And you know better than
19 to stand in the back of the room to ask your
20 questions, or she'll come and bring you up there.
21 And also identify yourself to Ms. Holmes as far as
22 who you are, what's your question. If you're not
23 going to ask a question to our distinguished panel,
24 and it's a statement, you will be limited to five
25 minutes. And at the end of the meeting, if you want

1 another five, we'll see what happens. But at this
2 point who wants to go first with a question? Who
3 wants to go first with a statement? Oh, John
4 Haggard; come on up.

5 MR. HAGGARD: I'm the first one up.
6 I've got two; I've got a statement and a question.

7 MODERATOR SMITH: Okay. You've got to
8 grab the microphone.

9 MR. HAGGARD: I've got a statement --
10 Haggard,

11 H A G G A R D, just like my cousin Merle.
12 I've got a statement and a question too. The
13 statement, first, will be, I was at the
14 request for the Consumers during
15 decommissioning -- or request to end their
16 license early. And, first of all, I'd like to
17 commend Consumers for the way they're
18 decommissioning the plant, which I was opposed
19 to. And, in turn, as a citizen of this area,
20 a native of this area, growing up, it is an
21 end of an era for our community. I can
22 remember, when I was bartender at the Weather
23 Vane in the early 60's, Consumers being built
24 here. I oppose the -- I requested that the
25 NRC deny Consumers the right to end their

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1 licensing; as a matter of fact, requested that
2 they extend their license because of the
3 energy situation. And it's proven that now,
4 with our energy costs that are escalating or
5 rising. But, in turn -- that was decided
6 against my better wishes, but, in turn,
7 they've done a good job, and I appreciate what
8 they've done. And we're going to -- as a
9 citizen of Charlevoix community, we -- myself
10 and members of community are going to miss
11 them as a fellow employer and employees and
12 workers and hope them the best in their
13 endeavors throughout the state.

14 My question is, as a member of the
15 historical society, I wondered if -- what is the
16 status of the historical values that have been
17 developed in the plant control room; the monitoring
18 stuff, the films, the archives that have been
19 developed from Ronald Reagan, when he used to be a
20 General Electric -- with the television, all this
21 information -- what is going to be the NRC's and
22 Consumers' ability to hold on and hopefully maintain
23 a facility someplace in Charlevoix area for all
24 those historical values? Thank you.

25 MR. HAAS: Thank you, John, for those

1 kind words. Relative to your question of what is
2 going to happen with some of the historically
3 significant items -- you did mention control room.
4 The control room has been dismantled and disposed
5 of, as has the plant simulator. But the rest of
6 those documents and mementos that you referred to,
7 along with a good amount of hardware; such as
8 signage, photographs, testimonials, those types of
9 things, plaques; we're looking for a home for, and
10 we've been working with the Charlevoix Historic
11 Society to find that home. Tim, I don't know if
12 we've landed it yet, but we're certainly going to
13 keep those precious items with us as long as we can.

14 MR. PETROSKY: If I can just add --

15 MODERATOR SMITH: Nope. You need to get
16 to a microphone and identify yourself.

17 MR. PETROSKY: Tim Petrosky, P E T R O S
18 K Y. John, we formed a partnership with the
19 Charlevoix Historical Society, and they've given us
20 a wish list of everything that they would like. And
21 so as it's being decommissioned, taken out of
22 service, we're saving that for them. A lot of it is
23 based on their space limitations, so if -- basically
24 anything they want, we're pretty much willing to
25 give them, but they only have a certain amount of

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1 space too. But we have formed a partnership with
2 them.

3 UNIDENTIFIED SPEAKER: I just wanted to
4 respond briefly to the initial statement you made
5 about your desires for them to keep operating and
6 asking the NRC to do something. I just want to make
7 it clear that the NRC is, as our name says, a
8 regulatory agency. We react to whatever proposals
9 for the license applications, amendment,
10 termination, whatever a licensee requests. We, of
11 course, have power, during operations, to shut them
12 down if they're operating unsafely, but when they
13 decide to terminate, it's their decision, not NRC's
14 input to that.

15 MODERATOR SMITH: Okay. Thank you.
16 Next question.

17 MS. BEEMON: Hi there. I'm JoAnne
18 Beemon,

19 B E E M O N. And I want everyone to know that
20 I was asked by Consumers Power Company to be
21 the environmentalist on the Citizen's Advisory
22 Board, and I was asked to be the
23 environmentalist on this board before it was
24 cool to be an environmentalist, and before
25 everyone said that they were one. It was kind

1 of a four-letter word back then. But I have a
2 few questions. The one thing -- I wanted to
3 ask you, when I was there the last time, when
4 we were looking at guardian with the waste --
5 actually the rubble -- I think you called it
6 "rubble" -- is going to waters. And was I
7 correct that the guardian identified alpha;
8 was that right? What did it --

9 MR. PALLAGI: No. That --

10 MS. BEEMON: I mean gamma.

11 MR. PALLAGI: There you go; correct.

12 MS. BEEMON: What I forgot to ask you
13 was, could there be beta and alpha in the -- in the
14 trucks that were coming through that weren't
15 measured by the guardian, or is that measured
16 somewhere else?

17 MR. PALLAGI: Thanks for the question,
18 JoAnne. That's a -- it's a multiple-phase process,
19 so the look for beta and alpha is completed much
20 further ahead of the debris going through the
21 guardian. This takes place while the structures are
22 still standing, so that's -- the RP technicians will
23 be doing those surveys looking for those
24 contaminants and identifying it. So that happens in
25 the plant.

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1 MS. BEEMON: And the alpha -- or -- and
2 the gamma has to be done later; it can't be done in
3 the plant when you do the alpha? Or --

4 MR. PALLAGI: Well, it is all done at
5 that time, but, again, it's a -- you know, the
6 multiple process of checks. So --

7 MS. BEEMON: Oh, so that's the -- like,
8 a final check?

9 MR. PALLAGI: Right.

10 MS. BEEMON: Okay; okay. I wanted to
11 ask, when you are clearing this -- when you are
12 cleaning this site and monitoring the site -- and I
13 wanted to ask this -- the same thing I wanted to ask
14 you was about what the boundaries of the site, as
15 you measure for contamination -- do the boundaries
16 of the site include the canal, and do they also
17 include at all into the water, or was it high water,
18 low water, mean? And I wanted to ask that of the
19 NRC.

20 MODERATOR SMITH: NRC can answer.

21 MR. SNELL: No. The water line is
22 basically the end of the property. Any
23 contaminates -- contaminants that would have been
24 discharged into the lake would have been legally
25 allowable releases over the years, and so there --

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1 you know, I think there is low levels of
2 contaminants in the sediment, but they're not
3 responsible for cleaning that up, 'cause that's --
4 those are legally allowable releases, and it's not
5 on their property.

6 MS. BEEMON: And when you say water
7 line, our lakes have gotten really low. So is that
8 the water line as the lake is at its lowest point or
9 whatever point probably?

10 MR. SNELL: Yeah.

11 MS. BEEMON: Okay. And when --

12 MR. PALLAGI: JoAnne -- if I could,
13 JoAnne, --

14 MS. BEEMON: Yes.

15 MR. PALLAGI: -- add some information
16 primarily on the discharge canal, our process -- and
17 I didn't explain that here, 'cause we have so many
18 of them. But we will be -- aft- -- we have already
19 concluded surveys of the discharge canal, actually
20 went in and pulled sediment and combined that with
21 our years and years and years of environmental
22 surveys and identified one small area of
23 remediation, which is essentially on the screen
24 house building. So what we will do in the process
25 is put a dam in the middle of the canal, evacuate

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1 the water.

2 MS. BEEMON: Oh.

3 MR. PALLAGI: We'll remove the
4 structure. At that time we will survey the area
5 which was that former portion of the canal, ensure
6 that it meets the release criteria, and then we will
7 return it to its original contour, probably 1958,
8 1959 timeline. So that area will be surveyed and
9 checked.

10 MS. BEEMON: I'm happy to hear that,
11 because that's such a popular place for people, and
12 it -- where they've fished for years and years and
13 years. And that was of concern to me. Will there
14 be any space where capping of the ground is used in
15 coming to Greenfield? Will anything be capped?

16 MR. PALLAGI: (Shaking head negatively)

17 MS. BEEMON: That won't be?

18 MR. PALLAGI: No, nothing will be
19 capped. The only thing will be plugged -- it'll be
20 in accordance with State requirements -- are the
21 wells on site, but nothing capped.

22 MS. BEEMON: And where there was the
23 tritium leak under the, I think, turbine building,
24 was that result --

25 MR. PALLAGI: That remediation is in

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1 process.

2 MS. BEEMON: Pardon me?

3 MR. PALLAGI: That remediation is in
4 process right now.

5 MS. BEEMON: Oh, is that part of the 30
6 to -- or whatever that is -- cubic yards?

7 MR. PALLAGI: Yes.

8 MS. BEEMON: Is it?

9 MR. PALLAGI: That area underneath the
10 pipe tunnel, sure.

11 MS. BEEMON: I hope you guys aren't
12 really bored.

13 MODERATOR SMITH: You've got one more
14 minute, JoAnne.

15 MS. BEEMON: The thing -- I wanted to
16 know if -- one of the things that I would like to
17 see is, I would like to stay -- I would like to see
18 Consumers Power Company stay with us and stay with
19 us also in responsibility for the high-level fuel
20 that's stored in the fuel casks on the ISFSI -- or
21 ISPSI, however you say that -- and I want to know
22 from the NRC and from Consumers is, are you going to
23 stay -- can you sell that or -- the casks; can you
24 sell that responsibility to someone else and go away
25 and leave us, or will you be here until it's moved

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1 to Yucca Mountain?

2 MR. HAAS: Let me try that one. That's
3 a good multifaceted question, as most of your
4 questions are, JoAnne. Consumers Energy is the
5 license holder of that spent nuclear fuel. We could
6 choose to transfer the responsibility; that is, the
7 assignment for the daily observation and security of
8 that; to another corporation; for example, our
9 Palisades plant down in South Haven. We've recently
10 assigned responsibility to operate that plant to
11 another corporation -- nuclear management
12 corporation. But we remained, in that case, the
13 owner of Palisades plant, paying the bills, but
14 utilizing another organization to complete the
15 license obligation. So that is always a possibility
16 for us, but we still remain the licensee, still
17 remain the organization that provides the funds to
18 support that operation. I guess, if -- and it's
19 unlikely, I guess I'd like to characterize it, that
20 we might be able to sell that material, if we could
21 find someone that didn't understand the
22 situation, --

23 MS. BEEMON: There might be some people
24 overseas.

25 MR. HAAS: -- to not bear the liability.

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1 In any case, I don't think that would happen. And
2 you also note there are very definitive regulatory
3 requirements for not only the ownership and
4 maintenance of that material, but also for any
5 transfer. So any transfer, if it somehow could
6 happen, would have to meet all existing regulations
7 surrounding financial -- the ability to support that
8 operation on an ongoing basis.

9 MS. BEEMON: And that, of course, is
10 exactly my concern, but the -- it -- technically
11 that's the property of the federal government, and
12 the federal government has not come through with a
13 solution to that. And my concern, with
14 corporation's turning over and selling and morphing
15 and becoming something else, is that Hayes Township
16 would be left, in the year 2020, with a company
17 that's gone bankrupt and the casks of high-level
18 waste on site. So that's -- that's my concern.

19 MR. HAAS: JoAnne, and, you know, I
20 believe existing regulation would prevent that. But
21 I am aware that there are regulat- -- changes in the
22 regulation are being proposed to further strengthen
23 our regulation to prevent that type of situation
24 from occurring.

25 MR. MILLER: Yeah. I would point out

1 from the NRC's standpoint, while we would allow a --
2 you know, a license transfer, in the very unlikely
3 event, as Kurt was talking about, that somebody else
4 would want to purchase that material, of course,
5 we'd have to make sure that the -- whoever picked up
6 the license had the financial assurance and the
7 technical wherewithal to be able to accomplish the
8 tasks that we require of independent spent fuel
9 storage installation of an ISFSI. And there are
10 very strict requirements. We are looking at
11 increasing some of the requirements, particularly in
12 the security area.

13 MS. BEEMON: Right.

14 MR. MILLER: And so whoever it is that
15 would -- I mean, in the very unlikely event that
16 another licensee would pick up the license, we would
17 maintain a -- you know, a very strict control and
18 continue to perform our inspections up here and make
19 sure that the -- that the fuel is kept safely.

20 MS. BEEMON: There is one thing that I
21 personally wanted to say, and this has been -- I've
22 been in and around Big Rock for a long time, and a
23 lot of you know that, and I've tried to be
24 respectful, and I've tried to do my homework. I
25 think that -- I just address you respectfully. I

1 think the first gentleman who was the head of the
2 plant once told me -- was it Selby? I can't
3 remember his name. I'm sorry.

4 UNIDENTIFIED SPEAKER: Lee Housler
5 (phonetic)?

6 MS. BEEMON: No; no. But anyway, he was
7 saying -- he once -- he once said that if he had
8 anything to do over, he wouldn't have pursued
9 nuclear power because of the expense and because of
10 the regulation. John Selby, I think it was. But at
11 any rate, one of things that we know now and -- and
12 hindsight's 20/20 -- is that it's clear that the
13 product of nuclear power is nuclear waste, and the
14 energy is used and gone rather quickly, and we're
15 left with nuclear waste. And right now we're being
16 courted with a new ideal of the hydrogen cell,
17 which -- it sounds like a wonderful idea, and you
18 can drink the exhaust from the exhaust pipe, et
19 cetera.

20 But behind the beautiful skirts of the
21 renewable hydrogen fuel is a whole new generation of
22 nuclear reactors, and the people who are proposing
23 the freedom car and the Apollo project and the
24 hydrogen cell, the very leaders in the conventions
25 all say that the -- that the way that that hydrogen

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1 fuel will have to be produced is through nuclear
2 power. And it's very alluring to embrace that
3 because we don't really want to have to conserve
4 energy, and we want to have individual cars, and we
5 want to continue the life-style that we are
6 currently used to. But what we've learned with coal
7 and with nuclear and with all kinds of energies is
8 that there is a price to pay, and I hope that we
9 will pursue any look at future energy very carefully
10 and understanding that nuclear waste becomes a
11 terrorist problem for all of us everywhere. Thank
12 you.

13 MODERATOR SMITH: Thank you, JoAnne.
14 I'm not an expert, but I wanted to comment on a
15 couple of things. When you said the company could
16 go bankrupt and leave us stuck with that, the funds
17 for decommissioning are in a separate escrow account
18 that were paid for by the consumers -- or -- that
19 bought the electricity.

20 MS. BEEMON: Is that part of that fund?

21 MODERATOR SMITH: So they're not company
22 funds; they're a separate fund as far as the
23 decommissioning budget. And the term "rubble," I
24 think they like it called --

25 MR. PALLAGI: "Debris."

1 MODERATOR SMITH: -- "debris" or
2 "demolition material." Anyway, that's it. Your
3 five minutes are up.

4 MR. HAAS: I would like to just state
5 one item here, because JoAnne, I think, is right on
6 top of it here. The decommissioning fund pays for
7 the dismantlement and disposal of the site proper.
8 To date, Consumers Energy has covered the cost for a
9 portion of dry fuel storage, what we call but-for
10 costs; those costs that we are incurring because the
11 Department of Energy has failed to meet its
12 obligations under the Nuclear Waste Policy Act of
13 1984. So, JoAnne, you are right on that particular
14 topic. But the company remains committed to
15 supporting that facility, and --

16 MS. BEEMON: That's what I like to hear.

17 MR. HAAS: -- seeking additional rate
18 relief if needed at some future date.

19 MODERATOR SMITH: Okay. Next question?

20 MR. STRONG: Hi. I'm Thor Strong,
21 opposite of weak. I'm with the Michigan Department
22 of Environmental Quality, a small office called the
23 Low-Level Radioactive Waste Authority. I just have
24 a -- sort of a timing question. The LTP shows the
25 reactor vessel being shipped in the fourth quarter

1 of 2003, and I'm wondering if you're still on target
2 for that or whether it's going to be later than
3 that?

4 MR. HAAS: Still on target.

5 MR. STRONG: Okay.

6 MR. HAAS: Hopefully early in the fourth
7 quarter 2003.

8 MR. STRONG: Okay. So this fall yet?

9 MR. HAAS: Correct.

10 MR. STRONG: Okay. Thank you.

11 MODERATOR SMITH: I ask for questions
12 one more time before we adjourn.

13 MR. THOMPSON: Curt Thompson, Shelby
14 Township Fire Department.

15 COURT REPORTER: Curt "K"?

16 MR. THOMPSON: "C."

17 COURT REPORTER: C U R T?

18 MR. THOMPSON: C U R T Thompson, common
19 spelling.

20 COURT REPORTER: Thank you.

21 MR. THOMPSON: Question on your screen
22 house area that I hate to lose because it's a nice
23 water point for the fire departments. The -- will
24 we or someone be able to perhaps put a fire
25 department water access point down somewhere beside

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1 that -- where the intake is now, where we currently
2 have a stand pipe?

3 MR. PALLAGI: Well, I don't believe so,
4 if I can address that. Because when the screen
5 house is dismantled, the intake structure is
6 dismantled along with it. As I mentioned, the
7 intake pipe will be plugged, so it will just be the
8 initial contour of the property. The canal itself,
9 that portion will be gone, so --

10 MR. THOMPSON: Okay.

11 MR. PALLAGI: -- I don't think there
12 would be a drafting point to be able to do that.

13 MR. THOMPSON: Yeah. I hate to lose
14 that, because the problem we have is along Lake
15 Michigan, there are no -- no good drafting points.
16 So --

17 MR. PALLAGI: Sorry.

18 MODERATOR SMITH: Any more questions?

19 MS. KRAFT: I'm Robbin Kraft, K R A F
20 T --

21 R O B B I N. And I'm -- I represent Hayes
22 Township, and I'm the treasurer for Hayes
23 Township. And my question is concerning the
24 property after its returned to Greenfield, and
25 we will have the spent fuel sitting there.

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1 Can you sell that property for another kind of
2 development, or do you have to wait until that
3 fuel has been disposed of completely, or can
4 some of the property be sold?

5 MR. HAAS: I can answer that.

6 MR. PALLAGI: Go right ahead.

7 MR. HAAS: Robbin, there's a regulatory
8 process available that would allow what's called
9 partial site releases. So the answer is, yes, we
10 could release portions of the site; obviously not
11 the area immediately surrounding this -- let's
12 see -- which is about 30 acres' worth.

13 MODERATOR SMITH: Tom Bailey is on the
14 edge of his chair back there. Are you going to
15 stand up and come up here, Tom? No. I thought he
16 was going to pick up what Robbin was referring to.
17 Okay. Any other questions? Last call. Any other
18 questions? I would like to --

19 MS. BEEMON: Could I just say something,
20 Don?

21 MODERATOR SMITH: You've got 30 seconds.

22 MS. BEEMON: Okay. I just want to
23 say --

24 COURT REPORTER: Wait; wait; wait.

25 MS. BEEMON: Oh, jeez. Of course.

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1 MODERATOR SMITH: Follow the rules.

2 MS. BEEMON: It's JoAnne again. What I
3 wanted to say is that in all the world, the site of
4 Big Rock is one of the most beautiful sites in the
5 world, and we -- and I do mean the world. And this
6 wonderful freshwater basin is a globally rare
7 resource, a globally rare treasure, a globally rare
8 gift. And if, in the future, we are able to work
9 with Consumers Energy to preserve and protect the
10 eagle and the Pitcher's thistle and the beauty of a
11 beach that is unmarred by humankind, it would be a
12 gift to generations forever and ever.

13 MODERATOR SMITH: You're so eloquent,
14 JoAnne, you can have another 30 seconds. All right;
15 all right. That's it. No more questions? Thank
16 you all for attending. Thank you, people from the
17 NRC and John.

18 MR. GILLEN: I'd like to also thank you
19 for all being here; appreciate it.

20 MODERATOR SMITH: And, Big Rock, we'll
21 be seeing you guys in the future. So we are
22 adjourned.

23 (Whereupon, the proceedings went off the
24 record at 8:20 p.m.)

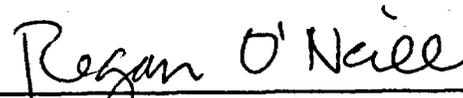
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CERTIFICATE

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

Name of Proceeding: Review of the License
Termination Plan for
Big Rock Point
Public Meeting
Docket Number: n/a
Location: Charlevoix, Michigan

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.



Regan O'Neill
Official Reporter
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