

ZCAP ZION STATION COMMUNITY ADVISORY PANEL

DRAFT -- MINUTES OF THE MEETING HELD ON OCTOBER 23, 2017 AT THE ZION NUCLEAR POWER STATION – TRAILER A

Present: Brent Paxton, Chairman
John Lewis, Deputy Chairperson
Craig Mason
Craig Dyke
Audrey Liddle
Linda Sittig
Cynthia Johnson
Kim Van Hoogen

Absent: Joel Brumlik
Sheri Jesiel
Doug Ower

Item 1: Call to Order

The Deputy Chairman called the meeting to order at 6:04 pm.

Item 2: Approval of Minutes

The May 22, 2017 meeting minutes were approved.

Item 3: Chairman's Remarks

Reminder to please put all cell phones on silent.

Item 4: ZionSolutions Presentations

Decommissioning Status Update

by Gerard van Noordennen, VP Regulatory Affairs

Mr. van Noordennen presented a slide show and gave an update as to where we are on the project and various contracts and subcontracts.

Disbursements and Balances

ZionSolutions Nuclear Decommission Trust
Balance Roll Forward – Cash Basis
As of September 30, 2017

	(\$ millions)
Beginning Balance	801.4
Earnings – Net of taxes and fees	110.1
Disbursements	(865.6)
Ending Balance	45.9

Majority of Expenses incurred as follows:

- Procurement of casks and canisters for dry fuel storage
- Waste disposal – 250M lbs. Class A of 313M lbs.
- Planning and preparation for spent fuel storage
- ISFSI pad design/construction
- Unit 1 and 2 internals segmentation
- Plant maintenance and security
- Asbestos remediation
- Containment preparation and support
- Radiation protection
- Fuel transfer operation
- Unit 1 and 2 reactor vessel segmentation and disposal
- Aux Building pre-open air demolition and decontamination
- Liquid Rad Waste processing
- Fuel rack removals
- Containment Buildings tendon removal
- Unit 1 and 2 steam generator removal
- Service Buildings demolition and backfill
- Project Management

Item 5: Comments, Questions and Answers

Panel Comments and Questions

Q: How long will it take to demolish one of the containments?

A: Approx. one month.

Q: Will there be a lot of noise?

A: No, the only time you really hear noise is if you're banging on metal (especially at night when the sound travels much better than during the day).

Q: Will that be a daytime operation or around the clock?

A: Containment demolition is planned as a daytime operation.

Q: Will the intake pipes from Lake Michigan be left in place?
A: The intake and discharge pipes are buried in the lake bed. They will be abandoned in place. The vertical risers that come off the pipes will be removed after the pipes are no longer needed for decommissioning or future use. To tear the pipes out of the lake bed would create a huge environmental impact. This practice is consistent with other plants around the country.

Public Comment and Questions

Q: Will there be a tent or any barrier to keep debris from the containments going into the lake?

A: Demolition will not reach the lake. The most it would travel is approx. 50 feet from the lake.

Q: Is the 2017 NFR letter for chemical?

A: Yes.

Q: Will the radiological be a separate NFR letter?

A: Yes, that letter will come from the NRC. We are expecting it in June of 2019.

Q: What is the definition of unrestricted future use?

A: It's defined as Federal Regulation 10CFR20 which says that if the radiological levels here are less than 25 millirem per year plus ALARA (which means something less than 25 millirem). We think we will be around 15 millirem when we are all done. The NRC has determined that is good for unrestricted future use.

Q: How deep are the discharge and intake pipes buried in the sand?

A: They are just below the surface.

Q: Why do you think they won't be bouncing around like the rest of the infrastructure in the lake right now?

A: They haven't moved in the last 35 years and the track record around the country has been that these pipes are stable.

Q: Who could we appeal to if the pipes do start bouncing?

A: Illinois Department of Natural Resources controls that.

S: We would like the park to be contiguous and believe the pipes will have a major environmental impact and should be removed.

Q: What federal agency will do the final inspection?

A: The US Nuclear Regulatory Commission.

Q: The 260 acres that have been released, is that on the resident farmer model?

A: Yes, there has been no impact at all from plant operations.

Q: In the remaining 80 acres, has there been any indication of any tritium so far?

A: Nothing so far.

- Q: Was the pre-planning grant that was mentioned in the film the \$5M that was originally expended previous to 2010?
- A: No, that was due diligence to characterize the site to see what was really here and to conduct a current site characterization and cleanup cost estimate.
- Q: Were the 1995 Exelon assumptions inaccurate?
- A: No, they just did not have the level of rigor that you need when you start doing a project like this.
- Q: Was there a cost in there to remove the discharge and intake pipes from Lake Michigan?
- A: The assumption and our discussions with the State of Illinois was that they would be abandoned in place.
- Q: Has the State of Illinois, the Department of Natural Resources, the Army Corp of Engineering or the US NRC opined or given approval to abandon the pipes in public space?
- A: They are all aware of the plan but it is one of the last things that will be decided.
- Q: How will we know if there is enough money to remove them if need be?
- A: There is money set aside for that.
- Q: What is the difference between all of the waste classes? How do you determine the waste classes?
- A: The US Department of Transportation Regulations specifies the waste classes.
- Q: Regarding the casks stored at the ISFSI, what would happen if they got wet or were submerged? Have there been any earthquake studies? How are the casks inspected?
- A: The casks are designed to go up to 200 years of storage. The NRC license gives a certificate of compliance in 20 year intervals. The casks are designed to be able to be submerged in 50 feet of water and continue to operate with no issues. The NRC has an Aging Management Program for inspecting the casks.
- Q: If the vents at the bottom of the casks are blocked, how long would it take the cement to melt? Do you have procedures in place to extract the containers and put them in the casks?
- A: Cement will not melt. You have 62 hours to unblock 2 out of the 4 vents that are down there. Casks are inspected every 8 hours.
- Q: Are there procedures in place in case any of the casks are damaged?
- A: There has only been one case in the US where a repair had to be done. If something catastrophic happened, we would notify the manufacturer (NAC) who has procedures in place to come out with specialized equipment to do the repairs.
- Q: Regarding security – do the casks talk to security or is everything manual?
- A: We cannot get into the details of security.
- Q: Are the performance characteristics of the casks contained in the licensing?
- A: Yes.

Item 6: Old Business

None.

Item 7: New Business

Discussion on when to hold the next meeting.

Item 8: Adjournment

The next scheduled meeting will be May 21, 2018. The Chairman entertained a motion to adjourn the meeting. Motion was carried unanimously by the Panel. The meeting was adjourned at 7:13 pm.