

QA: NA

MOL.20070806.0019

From: Lee Morton/YM/RWDOE [Lee_Morton@ymp.gov]
Sent: Monday, June 18, 2007 4:26 PM
To: Joseph Rivers/YD/RWDOE; Susan Walker/YD/RWDOE; Ernest Harr/YD/RWDOE; leroys@ageiss.com
Subject: Fw: Status of June 15 Data Call re: Utilities/electrical power

Is this sufficient to support the electrical needs?

----- Forwarded by Lee Morton/YM/RWDOE on 06/18/2007 03:28 PM -----

To: Lee Morton/YM/RWDOE@CRWMS
cc:
Subject: Re: Fw: Status of June 15 Data Call re: Utilities/electrical power [Link](#)

js 7/30/07

Not Privileged

LSN: Not Relevant - ~~Privileged~~

User Filed as: Excl/AdminMgmt-14-4/QA:N/A

Lee: Here is some additional info in response to the below inquiry:

Construction of the tunnels and drifts will use maximum of 20 MW and run from 2012 to 2019 and beyond.

Initial operation will begin in 2017. Peak load of 90 MW is estimated to include full operation (70 MW) and construction of the drifts (20 MW).

During Construction from 2012 to 2017, power is estimated to ramp up from 10 MW to 30 MW.

At full operation (probably around 2025) the annual megawatt-hours would be 90 MW *24 hours/day*365 days/year = 788400 MWhr.

Please let me know if we can provide anything else.

Thank you,
Jan

To: Janice Roberson/YM/RWDOE@CRWMS
cc:
Subject: Fw: Status of June 15 Data Call

Not privileged js 7/30/07

LSN: Not Relevant - ~~Privileged~~

User Filed as: Excl/AdminMgmt-14-4/QA:N/A

Please see if we have any information to help.

----- Forwarded by Lee Morton/YM/RWDOE on 06/18/2007 09:59 AM -----

To: Lee Morton/YM/RWDOE@CRWMS
cc: Susan Walker/YD/RWDOE@CRWMS, Joanne Stover/YD/RWDOE@CRWMS, leroys@ageiss.com
Subject: Fw: Status of June 15 Data Call

Not privileged js 7/30/07

LSN: Not Relevant - ~~Privileged~~

User Filed as: Excl/AdminMgmt-14-4/QA:N/A

Lee,

Another question relating to utilities and energy.

Thanks

Joe

----- Forwarded by Joseph Rivers/YD/RWDOE on 06/18/2007 11:33 AM -----

Please respond to <leroys@ageiss.com>

To: <Joseph_Rivers@Notes.YMP.GOV>
 cc: <Susan_Walker@Notes.YMP.GOV>, <Ernest_Harr@Notes.YMP.GOV>
 Subject: RE: Status of June 15 Data Call

8/1/30/07

LSN: Not Relevant - Privileged

User Filed as: Excl/AdminMgmt-14-4/QA:N/A

The data deliverable for Utilities also does not include electricity use (in megawatt-hours) for any of the periods or peak electric power (megawatts) for the construction period.

Comments from "quejn" on Chapter 3 of Utilities mentioned a maximum power requirement of 90 MW during construction, but nothing was stated in the data deliverable.

Leroy Shaser
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From: Joseph_Rivers@Notes.YMP.GOV [mailto:Joseph_Rivers@Notes.YMP.GOV]
Sent: Monday, June 18, 2007 6:33 AM
To: Susan_Walker@Notes.YMP.GOV; richardh@ageiss.com; leroys@ageiss.com; kdavis@jason.com; tonyab@ageiss.com; mgonzalez@jason.com; YuChien.Yuan@ymp.gov; pixie.baxter@ttnus.com
Cc: squarey@att.net; Ernest_Harr@Notes.YMP.GOV; Joanne_Stover@Notes.YMP.GOV
Subject: Fw: Status of June 15 Data Call

Users of BSC data request responses:

Please ensure that you review this information and the information provided previously to ensure that the data received is what was expected. If there are any missing parts, we need to discuss them immediately. We may or may not be able to get additional information. Please provide me (with copies to Susan and Ernie) an email with your assessment of the data request response (i.e., meets your needs, severely lacking (and why), or somewhere in between)

Thanks

Joe Rivers

----- Forwarded by Joseph Rivers/YD/RWDOE on 06/18/2007 08:23 AM -----

To: Jane Summerson/YD/RWDOE@CRWMS, Joseph Rivers/YD/RWDOE@CRWMS
 cc: Janice Roberson/YM/RWDOE@CRWMS, Roberta Stambaugh/YM/RWDOE@CRWMS
 Subject: Status of June 15 Data Call

js 7/30/07

LSN: Not Relevant - ~~Privileged~~

User Filed as: Excl/AdminMgmt-14-4/QA:N/A

This email serves as the final response to the SEIS data call for all items due on June 15, 2007. Most of the items have been previously transmitted. For items not already transmitted, this email serves as BSC's response.

With this email BSC believes all SEIS data call support is closed except for one item; *total quantities used of materials and services (e.g., oils and lubricants, concrete, cement, steel, copper, and titanium)* We regret that this information has slipped through the cracks and we will pull all necessary resources together to achieve a response next week.

As always, BSC is available to help with any clarification on the input provided.

Aesthetics

1. Description of structures offsite and at boundary of land withdrawal – transmitted June 14, 2007
2. Number and location of ventilation areas – transmitted June 14, 2007
3. Description of ventilation stacks – transmitted June 14, 2007
4. Type and amount of lighting – transmitted June 14, 2007
5. Any other information – transmitted June 14, 2007

Biological Resources

1. Any new land cover types – transmitted January 31, 2007
2. Any new special-status species – transmitted January 31, 2007
3. Any new land reclamation activities – transmitted January 31, 2007. Since that time, additional land has been disturbed at Yucca Mountain and additional reclaimed sites have been released from further monitoring and remediation. As of March 30, 2007, 153.96 hectares of land has been disturbed. Updated estimates are provided to DOE quarterly. As of June 1, 2007, 119 sites, totaling 17.4 hectares have been successfully reclaimed and released from further monitoring and remediation.
4. Any other information of soil disturbances – per the negotiated data call, BSC is available to support a joint workshop on this subject. BSC has available Geographic Information System databases of lands disturbed at Yucca Mountain Prior to 1991 and from 1991 through March 2007. Contact Kurt Rautenstrauch (702-821-7282) if the authors would like to discuss this data.

Hydrology

1. Any planned alterations to natural drainage – transmitted June 14, 2007
2. Any new information on floodplain analysis – There is no new information available on wetlands or floodplains from consultations with the U.S. Army Corp of Engineers.
3. Any newly identified hazardous chemicals – transmitted June 4, 2007
4. Use of any aquifer other than Jackass Flats – No repository related water use other than from the Jackass Flats aquifer is anticipated. Prior to repository construction there may be some small usage to support reclamation projects (less than a few acre-feet total, from basin 229). Water from basin 230: approximately 80 acre-feet to support construction of an interchange at U.S. 95 (if deemed appropriate by the State) plus an undetermined portion of water necessary to support access road construction.
5. Estimate of channels qualifying as "waters of the US" - A complete delineation has not been conducted of ephemeral streams at Yucca Mountain that may be regulated under Section 404 of the Clean Water Act. The only delineations conducted are for small sections of ephemeral streams adjacent to areas disturbed at Yucca Mountain or that may be disturbed during construction of a rail line or access road to the repository. Because these delineations are

for small sites scattered throughout the area, the information is not useful for describing or estimating waters of the U.S. located in areas potentially disturbed by the Proposed Action.

The best available data to estimate the area of waters of the U.S. that may be filled by the proposed action is the National Hydrography Dataset (NHD). See the U.S. Geological Survey web site at <http://nhd.usgs.gov/index.html> for a description of this data. The ephemeral streams identified in the NHD high-resolution flowline data for the Yucca Mountain watershed are the streams most likely to meet the definition of waters of the U.S. in 33 CFR 328.3. It is recommended that the NHD flowline data be used if an estimate is required of the length of waters of the U.S. that may be filled by the proposed action. The NHD for the Yucca Mountain region is being submitted to the Yucca Mountain Project Records Processing Center in June 2007 by the BSC Transportation Department to support development of the rail alignment Environmental Impact Statement.

It should be noted that the U.S. Army Corps of Engineers and U.S. Environmental Protection Agency published on June 5, 2007, new guidance on jurisdiction over waters of the United States under the Clean Water Act. Based on that guidance, some or all of the ephemeral streams at Yucca Mountain, which are non-navigable tributaries of an interstate water that are not relatively permanent, may no longer be regulated under Section 404 of the Clean Water Act.

Land Use

1. Current and future land use in the land withdrawal area – the existing discussion in the Repository FEIS adequately represents the current and future land use. While there is additional information related to how the Nevada Test Site controls land use conflicts, any such discussion is at a level of detail beyond the discussion in the Repository FEIS.

Management of Repository-Generated Waste and Hazardous Material

1. Description of activities and facilities that potential will generate waste – transmitted June 15, 2007
2. Estimates of annual and total quantities of waste generated – transmitted June 15, 2007
3. Latest information on waste-management practices – There has been no definitive decisions within the project regarding use of either an onsite landfill, or other landfill - at this time, the discussion in the FEIS remains the best approach.
4. Latest information on waste minimization/pollution prevention – per the negotiated data call, BSC is available to support a joint workshop on this subject.

Noise and Vibration

1. Amount of heavy-equipment, transmitted June 4, 2007
2. Any other noise-generating equipment – transmitted June 4, 2007

Occupational and Public Health and Safety

1. Subsurface worker dose assessment – transmitted June 11, 2007
2. Surface worker dose assessments – IHF transmitted June 4, 2007, WHF/RF/LLF/CRCF transmitted June 15, 2007
3. Aging worker dose assessment – transmitted June 15, 2007

Retrieval

1. Latest description of retrieval contingency – transmitted June 14, 2007

Socioeconomic

1. REMI for repository – transmitted June 4, 2007
2. REMI for cumulative impacts – transmitted June 4, 2007

Utilities

1. Description of activities and facilities consuming/using utilities – transmitted on June 14, 2007
2. Estimates of consumption/use rates – partial response transmitted on June 14, 2007 **BALANCE IS STILL**

OWED.

3. Latest information on electric power supply options – per the negotiated data call, BSC is available to support a joint workshop on this subject.
4. Available information on system capacities – per the negotiated data call, BSC is available to support a joint workshop on this subject.
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