

**From:** [Dan Pava](#)  
**To:** [Antizzo, Karen B.](#)  
**Cc:** [Owens, Kirk W.](#)  
**Subject:** Fwd: RE: RE: Utility and Infrastructure info for data call  
**Date:** Friday, January 14, 2011 3:28:23 PM

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Hi Karen,

Here is the **response** from LANL utilities and infrastructure to your inquiry of January 5:

X-Sieve: CMU Sieve 2.3  
X-NIE-2-Virus-Scanner: amavisd-new at mailrelay1.lanl.gov  
From: "Witt, Monica R" <mwitt@lanl.gov>  
To: "Pava, Daniel S" <dpava@lanl.gov>  
CC: "Blauert, Gary F" <blauertg@lanl.gov>, "Miller, Maura D" <mauram@lanl.gov>, "Nisengard, Jennifer E" <jnisengard@lanl.gov>  
Date: Fri, 14 Jan 2011 11:37:16 -0700  
Subject: RE: RE: Utility and Infrastructure info for data call  
Thread-Topic: RE: Utility and Infrastructure info for data call  
Thread-Index: Acus8iHOLDPC33WBT0uOuUcHLNPdhAACgsHwAcdkHxA=  
Accept-Language: en-US  
X-MS-Has-Attach:  
X-MS-TNEF-Correlator:  
acceptlanguage: en-US

Dan,

I asked our UI Engineering Manager, Gary Blauert, to respond to Karen's questions below... this is Gary's response:

***Presently the capacity of the Los Alamos Power Pool is 150 MW. The components of the 150MW are: 115 MW of import capacity, 10 MW of TA-3 Generation (two 5 MW units) and 25 MW of capacity from the LANL Combustion Gas Turbine Generation.***

Please let me know if you need additional clarification.

Thanks,

Monica Witt  
Utilities & Institutional Facilities Energy Manager  
MRF Operations Manager  
Los Alamos National Laboratory  
505-795-2884  
**From:** Dan Pava [ <mailto:dpava@lanl.gov> ]  
**Sent:** Wednesday, January 05, 2011 9:04 AM  
**To:** Miller, Maura D  
**Cc:** Nisengard, Jennifer E

**Subject:** Fwd: RE: Utility and Infrastructure info for data call

Hi Maura,

Karen from SAIC just sent along the following questions about LANL electrical power, and I would like to know if you could respond. If not you, then the right SME?

As always with the CMRR Supplemental EIS, time is of the essence.

happy New Year,

Dan Pava  
NEPA staff  
ENV-ES

X-Sieve: CMU Sieve 2.3  
X-NIE-2-Virus-Scanner: amavisd-new at mailrelay1.lanl.gov  
X-AuditID: 9508401a-b7b62ae00000086c-c6-4d24859a7937  
Subject: RE: Utility and Infrastructure info for data call  
Date: Wed, 5 Jan 2011 09:52:05 -0500  
X-MS-Has-Attach:  
X-MS-TNEF-Correlator:  
Thread-Topic: Utility and Infrastructure info for data call  
Thread-Index: Acugbi126ehFjfQMTGyzlZw7wM8POQMdUC/g  
From: "Antizzo, Karen B." <KAREN.B.ANTIZZO@saic.com>  
To: "Dan Pava" <dpava@lanl.gov>  
X-OriginalArrivalTime: 05 Jan 2011 14:52:10.0347 (UTC)  
FILETIME=[216E7BB0:01CBACE8]  
X-Brightmail-Tracker: AAAAAA==  
X-Proofpoint-Envelope-Sender: KAREN.B.ANTIZZO@saic.com  
X-Proofpoint-Virus-Version: vendor=fsecure  
engine=2.50.10432:5.2.15,1.0.148,0.0.0000  
definitions=2011-01-05\_07:2011-01-05,2011-01-05,1970-01-01  
signatures=0  
X-Proofpoint-Spam: 0

Hi Dan – Happy New Year!

Can I ask a couple more questions regarding electricity and peak load?

In the 2008 SWEIS we have the system capacity for peak load demand at 150MW – this assumes that:

“Electrical energy and peak load capacity reflect the current import capacity of the electric transmission lines that deliver electric power to the Los Alamos Power Pool, as well as completion of upgrades at the TA-3 Co-Generation Complex, which will add 40 megawatts (350,400 megawatt-hours) of generating capacity. Values do not reflect completion of a new transmission line and other ongoing electrical power system upgrades.” (pg 5-128)

However, in the SWEIS Yearbook 2008 it says that TA-03 produces 20MW and recognizes that the #3 turbine is not operational. What does that put the total generating capacity for TA-3 without this turbine working 20MW or 10 MW?

And what would be the new total capacity for all of LANL and Los Alamos? I assume it is not 150 MW if that assumes 40 MW from TA-3. Wouldn't that be 130 MW? Or is it 120 MW if the #3 turbine is capable of 10MW.

And assuming the TA-50 substation is being build it would produce an additional 40MW that we can add to the total?

Thanks, Karen  
301-428-7659

**From:** Dan Pava [<mailto:dpava@lanl.gov>]  
**Sent:** Monday, December 20, 2010 12:49 PM  
**To:** Antizzo, Karen B.  
**Subject:** RE: Utility and Infrastructure info for data call

I have not yet seen the final version of the NNSA site sustainability report.

Do you still need clarification on the electric consumption question below asked on December 16?

At 03:43 PM 12/16/2010, you wrote:

Hi Dan -- I got a copy of the sustainability report that was finalized yesterday - have you seen it - it has a lot of infrastructure information.

FY 2011 Site Sustainability Plan UI-PLAN-00X

Karen

**From:** Antizzo, Karen B.  
**Sent:** Thu 12/16/2010 5:27 PM  
**To:** dpava@lanl.gov  
**Subject:** FW: Utility and Infrastructure info for data call

Hi Dan - can I ask one more question? --

Can you to find out why the 2008 Yearbook says that the site used:

**"The electric consumption for CY 2008 was 409 gigawatt-hours, which represents 11 gigawatt-hours more than CY 2007"**

but yet below it says:

**"FY10 LANL Total Consumption = 125,177.5 MW"**

I know it is gigawatt-hours vs megawatt hours per year but it still doesn't seem to make sense.

Thanks again, Karen

**From:** Owens, Kirk W.  
**Sent:** Mon 11/15/2010 6:44 PM  
**To:** Antizzo, Karen B.; Goodan, Susan M.  
**Subject:** FW: Utility and Infrastructure info for data call  
Here is a response to some of our infrastructure data call questions.

KO

**Kirk Owens** | SAIC  
Sr. Environmental Engineer | ILPSG  
Energy, Environment, and Infrastructure

office: 301.353.8228 | fax 301.428.3713  
mobile: 240.354.8797 | email: owensk@saic.com

Please consider the environment before printing this email.

**From:** Dan Pava [<mailto:dpava@lanl.gov>]  
**Sent:** Monday, November 15, 2010 6:30 PM  
**To:** Owens, Kirk W.  
**Subject:** Utility and Infrastructure info for data call

X-Sieve: CMU Sieve 2.3  
X-NIE-2-Virus-Scanner: amavisd-new at mailrelay2.lanl.gov  
From: "Nisengard, Jennifer E" <jnisengard@lanl.gov>  
To: "Pava, Daniel S" <dpava@lanl.gov>  
Date: Mon, 15 Nov 2010 09:48:42 -0700  
Subject: FW: Information for the CMRR SEIS - time sensitive  
Thread-Topic: Information for the CMRR SEIS - time sensitive  
Thread-Index:  
AcuALUCQDEUdkjMiQTCWC1rL3ZEiBygAJzMrQAIi8iwAAm2J20A==  
Accept-Language: en-US  
X-MS-Has-Attach:  
X-MS-TNEF-Correlator:  
acceptlanguage: en-US

From Maura.

**From:** Miller, Maura D  
**Sent:** Friday, November 12, 2010 8:46 AM  
**To:** Witt, Monica R; Nisengard, Jennifer E  
**Subject:** RE: Information for the CMRR SEIS - time sensitive

I've filled in my answers (bold font) where my name was with FY10 data,

see below.... Let me know if you have any questions or need more information.

Maura

**Maura Miller**

Utilities & Institutional Facilities  
Metering Program Administrator  
UI-DO / MS K760  
665-9240 w / pgr 104-3501

**From:** Witt, Monica R

**Sent:** Tuesday, November 09, 2010 3:36 PM

**To:** Miller, Maura D

**Cc:** Erickson, Andrew W

**Subject:** RE: Information for the CMRR SEIS - time sensitive

Maura,

I've filled in some boxes below... please fill in the boxes below with the appropriate information and send back to Jennifer Nisengard before COB Friday. Please copy me when you do this.

Thanks,

Monica Witt

Utilities & Institutional Facilities Energy Manager  
MRF Operations Manager  
Los Alamos National Laboratory  
505-795-2884

**From:** Nisengard, Jennifer E

**Sent:** Tuesday, November 09, 2010 9:44 AM

**To:** Erickson, Andrew W; Witt, Monica R; Hay, Thomas A

**Cc:** Wright, Marjorie Alys; Pava, Daniel S

**Subject:** Information for the CMRR SEIS - time sensitive

14

**INFRASTRUCTURE**

14.1

Have there been any electrical power system upgrades since the LANL SWEIS 2008 was published?

No

14.2

What is the status of the Electrical Infrastructure and Safety Upgrade Project?

Not a Utilities project. Not finalized – still in progress.

14.3

What is the current electric peak load demand (megawatts) for the LANL Site and other Los Alamos County users?

**FY10 System Peak = 82.72 MW, LAC = 23.3 MW, LANL = 69.23**

**MW**

14.4

What is the amount of energy use at LANL (megawatt hours per year) (i.e., is there anything more current than the 2008 SWEIS Yearbook)?

**FY10 LANL Total Consumption = 125,177.5 MW**

14.5

What is the current natural gas demand (cubic feet per year) for the LANL Site and other Los Alamos County users?

**FY10 LANL Total Natural Gas Consumption = 1,104,269 DTh**

14.6

Have any more facilities been metered to accurately track the natural gas usage at the site (i.e., is there anything more current than the 2008 SWEIS Yearbook)

No

14.7

What is the current Water demand (gallons per year) for the LANL Site and Other Los Alamos County users? (Anything more current than the 2008 SWEIS Yearbook)?

**FY10 Total LANL Consumption = 412,070 Kgal**

14.8

Did the Los Alamos Water Supply System ever pursue the use of the San Juan-Chama Transmountain Diversion Project to secure additional water for its customers, including LANL? If not, has anything else been done to increase the current capacity?

Yes, the LA County is pursuing it, LANL is unsure what impacts this will have on the Laboratory's capacity.

14.9

What has LANL done to meet the requirements of DOE Order 430.2B to reduce potable water use?

LANL has recommissioned the Sanitary Effluent Reclamation Facility and is planning to expand the facility to reuse 24% of water used compared to the FY 2007 baseline year.

14.10

Does the Sanitary Effluent Reclamation Facility meet the projections to save ~21 million gallons of water per year? What is the status/schedule of the expansion for the SERF? (The EA [DOE/EA-1736] was issued this summer)

We've recommissioned SERF and the capacity increase project is underway. Line items is on hold due to Continuing Resolution. We're putting interim measures in place to meet the PCB limits imposed by NMED and EPA until line item funding is available.

Hello Monica, Andy, and Tom,

We are working to finish up responses to the data call from SAIC for the draft CMRR SEIS – which has a very quick turnaround. Can you please answer these 10 questions and point to the Yearbook or other publish documents when necessary – some of these are in regards to projects proposed in the original CMRR EIS, others are questions for the scoping meetings. Please send your responses to Dan Pava by Monday – sorry for the quick turnaround – this is driven at the HQ level.

Thanks,

Jen

Jennifer E. Nisengard, Ph.D, R.P.A.  
Resources Management Team Leader  
Environmental Stewardship Division  
Los Alamos National Laboratory, MS J978  
(505) 667-7912 (office)  
(505) 500-2273 (cell)

**From:** [Dan Pava](#)  
**To:** [Antizzo, Karen B.](#)  
**Subject:** RE: Utility and Infrastructure info for data call  
**Date:** Wednesday, January 05, 2011 1:31:18 PM

---

Hi Karen,

I have asked various LANL SMEs to respond and will forward to you.

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