

Andrea Wilkes

From: Michael Skougard [michael.skougard@gmail.com]
Sent: Wednesday, April 21, 2010 10:37 AM
To: Andrea Wilkes
Cc: Enyeart, Sandra B.; Mike West; Carr, Ed
Subject: Fwd: SWEIS Info

Andrea,

Andrea,

Information for RSL and NLVF.

Mike S.

----- Forwarded message -----

From: Bixby, Cynthia A. <bixbyca@nv.doe.gov>
Date: Wed, Apr 21, 2010 at 7:24 AM
Subject: FW: SWEIS Info
To: Michael Skougard <michael.skougard@gmail.com>

Mike,

Below, find info requested on electrical systems. Let me know if you need anything else on this. I think this brings me up to date – I don't show I have anything else outstanding owed to you. Correct?

Thanks,

Cindy Bixby

Chief of Staff

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From: Mortensen, Steven
Sent: Wednesday, April 21, 2010 7:16 AM
To: Bixby, Cynthia A.
Subject: FW: SWEIS Info

Hi Cindy.

I'm not sure if you already received this.. But here is what we have for RSL and NLV.

Jimmy Walker provided info for RSL.. Renee Rowe provided for NLV.

Steve

RSL

What is the capacity of the electrical supply at RSL? Why was the statement made in the 2008 Supplement Analysis that the electrical distribution system at RSL was only capable of supporting present demands? Are there plans to improve this?

I do not know why the statement was made that the electrical distribution could support present demand. I do speculate that the purpose behind that statement was due to the fact at one time prior we had three trailers installed and there were questions regarding both our electrical and water system and if it was adequate enough to support the installation of three trailers. It did support this task and we are looking at trying to add an additional facility.

The electrical system into RSL comes through the base and NV Energy - we pay our bills through DFAS (Division Financial Advisory Service).

Describe the electrical transmission/distribution system at RSL.

The high Voltage distribution line comes from Nellis AFB at 200 amp fused disconnect at 12,470 VAC. That feeds a pad mounted Switch at the north end of the compound. From there the 12,470 VAC power is distributed to 3 location at RSL. One goes to the TSB building 2229 which feeds a 500 KVA / 480 volt 4 wire system. Another goes to the N.E. side of the complex and feeds a 225 KVA/ 208/120 VAC 4 wire system which was used for portable trailers which are no longer there. The final feed goes to our Main Building

2211. It feeds a 2000 KVA / 480 VAC, 4 wire transformer which feeds a 4000 amp 480 Volt Main Breaker.

Who is the supplier of natural gas to RSL? Southwest Gas What is the capacity and condition of the pipeline? A 2" high pressure lines supplies the RSL complex. It is regulated to low pressure at 3 locations: Building 2211, 2221 & 2229. Future capacity is available. The condition of the gas lines seem to be satisfactory.

What are the liquid fuel usages and amounts used at RSL (we have info on liquid fuel storage tanks)? Do they only store jet JP-8 fuel and no other liquid fuels?

RSL have a total of 9 tanks at the complex.

1. Backup Generator Storage Tank - 4000 gal - diesel - underground - bldg 2211
2. Fuel Storage - 550 gal - diesel - underground - bldg 2211
3. Fuel Storage - 550 gal - gasoline - underground - bldg 2211
4. Waste Oil Storage - 550 gal - used oil - underground - CLOSED - bldg 2211
5. Waste Water holding - 4000 gal - underground - Photo Department effluent containment tank - bldg 2211
6. Facility Backup Power Generator - 550 gal - underground - Fuel Spill containment tank - bldg 2211
7. Firewater pump backup power generator - 550 gal - underground - diesel - bldg 2216
8. Generator day tank - 275 gal - above ground - diesel - bldg 2211
9. Generator day tank - 550 gal - above ground - diesel - bldg 2216

Two tanks highlighted in blue are the only two tanks we actually dispense fuel from. All of which is used for various forklifts, generators and other on site events only.

We currently are not using any alternative form of fuel. All JP8 fuel for our Aviation assets come directly from the base.

#2 RedDye Fuel Oil for Heating
Unleaded Gasoline
Ethanol/E85
#2 Diesel
Biodiesel

NLVF

What is the capacity of the electrical supply at NLVF?

Electricity to the NLVF is supplied by the N V Energy from the Miller Substation located on Carey Avenue. The main switch at the service entrance point, located at the south end of the site adjacent to Energy Way, is 12.47 kV, 3 phase, 3 wire at 1,200 amps.

The power is distributed throughout the site via an underground distribution system to multiple pad mounted switches where it is transformed into useable power (480 V). A 15KV switch at 12.47 kV goes to the transformer; step down to 4160V located in Building A-05, then distributes step down power to the complex.

Describe the electrical transmission/distribution system at NLVF.

The high voltage distribution at the site is a loop configuration that allows isolation of one or more segments of the loop, rather than shutting down the entire system due to damage or repair work. The 12.47 kV power is distributed throughout the site via an underground distribution system to multiple pad mounted switches and step-down transformers, where it is transformed into useable power (480 V). There are five each 400 amp, 12.47 kV switches; four switches distribute power to the A, B, and C complexes, and one switch distributes power to the D complex.

Who is the supplier of natural gas to NLVF? What is the capacity and condition of the pipeline?

Natural gas is supplied to the NLVF by Southwest Gas Corporation. Natural gas enters the site through four high pressure gas lines. A 2-inch line supplies most of the A Complex, (a 2-inch line supplies the B Complex; this line no longer required, currently capped), and a 6 -inch line feeds the C Complex and the remainder of the A Complex. The high pressure gas flows through pressure reducing meters where it is distributed throughout the site via low pressure natural gas lines. The D complex is supplied by a direct connection

The line located on the far NE area feeding A4 , A5, and A15 was determined to be deteriorating and defective and will require extensive discoveries/planning activities to be performed prior to any work continuing. This line is in the same run/path as the other main utilities including a 440.

Is there liquid fuel stored at NLVF?

Yes...

FUEL STORAGE TANKS NORTH SIDE A-01

One, Diesel Storage Tank w/capacity of 267 Gallons

One Gasoline Storage Tank w/capacity of 391 Gallons

Steve Mortensen, FMP

Manager, Facilities Management

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