

# EMERGENCY STORAGE PROJECT

## San Vicente Pumping Facilities Carryover Storage and San Vicente Dam Raise EIR/EIS San Vicente Dam Raise Briefing Summary

**DATE:** May 2, 2007

**TIME:** 7:30 p.m.

**ORGANIZATION:**

Lakeside Community Planning Group

**MEETING LOCATION:**

Lakeside Community Center

**PRESENTERS:**

Nicola Kavanagh, SDCWA  
Shannon Reed, SDCWA  
Kevin Davis, Black and Veatch  
Can Truong , SDG&E  
Don Parent, SDG&E  
Fidel Castro, SDG&E

**STAFF RESOURCES:**

Emily Powell, Katz & Associates

**PRESENTATION SUMMARY:**

### San Vicente Pumping Facilities Update

Nicola Kavanagh, project manager for the San Vicente Pumping Facilities at the San Diego County Water Authority, explained the pumping facilities are part of the second phase of the overall Emergency Storage Project. Nicola explained the San Vicente Pumping Facilities include a pump station and a surge tank which will help ensure San Diego has access to the local water supply during emergencies. The pump station will be located in the valley near the current San Vicente Pipeline Portal and will be visible from the San Vicente marina access road. Once in place, water will be pumped from San Vicente Reservoir to the surge control facility, and then flow by gravity through the San Vicente Pipeline tunnel to connect to the Second Aqueduct near Interstate 15. She explained the pumps will be started up in phases with this project. The first pump will become active in 2009 and all three pumps will be running by 2015.

Don Parent, public relations representative from SDG&E, passed out a document with questions that came up from the planning group meeting on February 21, 2007 regarding the electrical issues associated with the project. He went over the answers to those concerns and took additional questions from members of the planning group. *(See attachment for full document)*. Kevin Davis, engineer of record from Black and Veatch, explained the features of the pump station were designed to minimize impacts to the electrical service in the Lakeside community. Kevin

used an analogy of a home air conditioner starting up and causing the lights to dim, in order to illustrate the potential for the pump station to cause the lights to flicker. Kevin also described the pump station's equipment that will be used to ensure the lights will not dim which include: motor soft starts, variable frequency drives, and flywheels on the motors. Kevin also explained operating scenarios such as limiting the number of times the pumps will start and stop which will also help minimize the impacts to the community's power supply.

### **Carryover Storage and San Vicente Dam Raise Project Update**

Shannon Reed, public affairs representative, explained the Water Authority is working on the draft environmental impact report/environmental impact statement to evaluate the impacts of potentially raising the San Vicente Dam higher than what is already planned. This would enable the Water Authority to store more water at the reservoir. The Draft EIR/EIS document will be released on July 6, 2007 which will commence a 45-day review period\*. A hard copy of the EIR/EIS will also be sent out to the planning group. During the review period, a public hearing will be held in Lakeside to give community members an opportunity to provide comments on the draft document. Shannon also announced the next community tour of the dam will be offered on Saturday, May 19 from 1- 4 p.m.

**\* Since the meeting, the release date for the Draft EIR/EIS has been delayed. It is expected to be available for review in August 2007.**

### **Questions and Comments During the Presentation:**

- Q. Will additional electrical poles be needed for this project?
- A. This project will utilize the existing pole lines. Some of the older poles may be replaced during this project.
  
- Q. What will the height of the electrical poles be?
- A. The maximum height of the poles will be 55 feet tall.
  
- Q. What percentage of the substation capacity will be used on this project?
- A. The pumps will use half of the capacity of the substation circuit, which is 120 MVA. In 2008, there will also be another circuit in the area to draw on for power.
  
- Q. What electrical impacts will the Lakeside community have with this project?
- A. The electrical system will be upgraded to ensure there are no impacts to the quality of power in Lakeside. The Water Authority will also purchase protection equipment for this project to ensure Lakeside's power is protected.
  
- Q. Why are private developers required to underground power lines if the Water Authority is allowed to put up wooden poles for power lines that would burn in a fire? Why won't the power lines be underground for this project?
- A. The Lakeside area is an overhead district with no requirement to underground the power lines.
  
- Q. What part of the power lines will be underground? Will the power lines be underground from the substation 1000 feet?

- A. The circuit construction will be a combination of underground and overhead power lines.
- Q. If there is one load pulling down the circuit, will equipment be put in place to balance the load?
- A. There is a variable frequency drive with the pumps. It takes about three minutes to ramp up the large pump and three seconds to ramp up the small pump. It is not anticipated to have any flickering of the lights in the community because when the pumps are being brought up to speed it will be a smooth, gradual process. The same is true for when the pumps are brought down. The speeds of the pumps will vary to regulate the flow of water to meet demands in an emergency.
- Q. How many gallons per minute will the pumps push out?
- A. The pumps will push out a high flow of water, which is approximately 444 cubic feet per second.
- Q. Is the new 12 KV line you mentioned for the project included in the environmental impact report?
- A. Two pumps will fill up the first full circuit and once the first circuit is filled up SDG&E will update the circuit to ensure there are no impacts to the community.
- Q. How many new power lines will there be for this project?
- A. SDG&E's system was upgraded last year to include a larger conductor. In 2008, a new circuit will be added to the existing system. Also there will be a second circuit added to the same pole line from the substation for the pump station.
- Q. Janis Shackelford asked if new circuits needed for this project were addressed in the EIR. She believes the increased visual impacts to the community due to the additional circuits were not discussed in the document.
- C. Rick Smith requested that a map of the electric line's route be provided, and representatives available to discuss the route, at the CWA Open House to be held before the planning group's June 2 meeting.

**SDG&E's Electric Power Requirements for the  
San Vicente Pump Station  
a San Diego County Water Authority Project  
before the  
Lakeside Community Planning Group  
Wednesday, May 2, 2007  
7:30pm**

**Previous Planning Group Questions and Comments**

**1. Where will the electricity come from (which substation)?**

Electricity for the San Vicente Pump Station will come from Los Coches substation. Los Coches substation is located at Lake Jennings Park Road and El Monte Road, about 5 miles from the Pump Station.

**2. How will the electricity be brought to the site?**

Electricity will be brought to the site via a 12kV circuit, using a combination of overhead and underground construction. Overhead construction consists of wood poles and the maximum pole height is 55'

**3. What will be the electric demand of the Pump Station?**

The Pump Station demand will be initially 6MVA in 2008 and ultimately 11.7MVA.

**4. What does that demand requirement equate to in relation to SDG&E's overall capacity?**

SDG&E's system peak was 4,467MW in 2006. The Pump Station initial load will be approximately 0.13% of the SDG&E's overall load.

**5. Is the pump station demand part of the justification for the Sunrise Power Link?**

No. The proposed Sunrise Power Link is justified by a much larger system growth from residential, commercial and industrial developments as well as providing an important element in enhancing the reliability of SDG&E's electric system. The Sunrise Power Link project is also required for importing renewable energy from outside of the SDG&E territory like Imperial Valley and other areas where it is available.

6. **Will the demand from the Pump Station impact Lakeside's power quality, i.e. brown-outs and power supply interruptions?**

SDG&E's electric system in the area will be upgraded to serve the Pump Station and existing load. SDG&E doesn't anticipate any brown-outs or power interruption due to the Pump Station load.

7. **Will this demand impact Lakeside's power quality such as dimming/flickering lights every time the Pump Station starts?**

SDG&E will be monitoring the power quality impact by the Pump Station. SDG&E and San Diego County Water Authority (SDCWA) have worked together to prevent or mitigate flickering lights due to motor starts. In order to control any potential flickering, SDCWA must comply with the inrush KVA limit on motor starts as dictated by SDG&E.

Any light flickering would be of negligible impact if the design and operation of the Pump Station are in compliance with SDG&E's requirements.

8. **What is being done to prevent impacts to Lakeside's power supply?**

San Diego County Water Authority can explain, in detail, what measures they are taking with their equipment to prevent or mitigate flickering lights due to motor starts. SDG&E merely sets the limits to which they must comply.