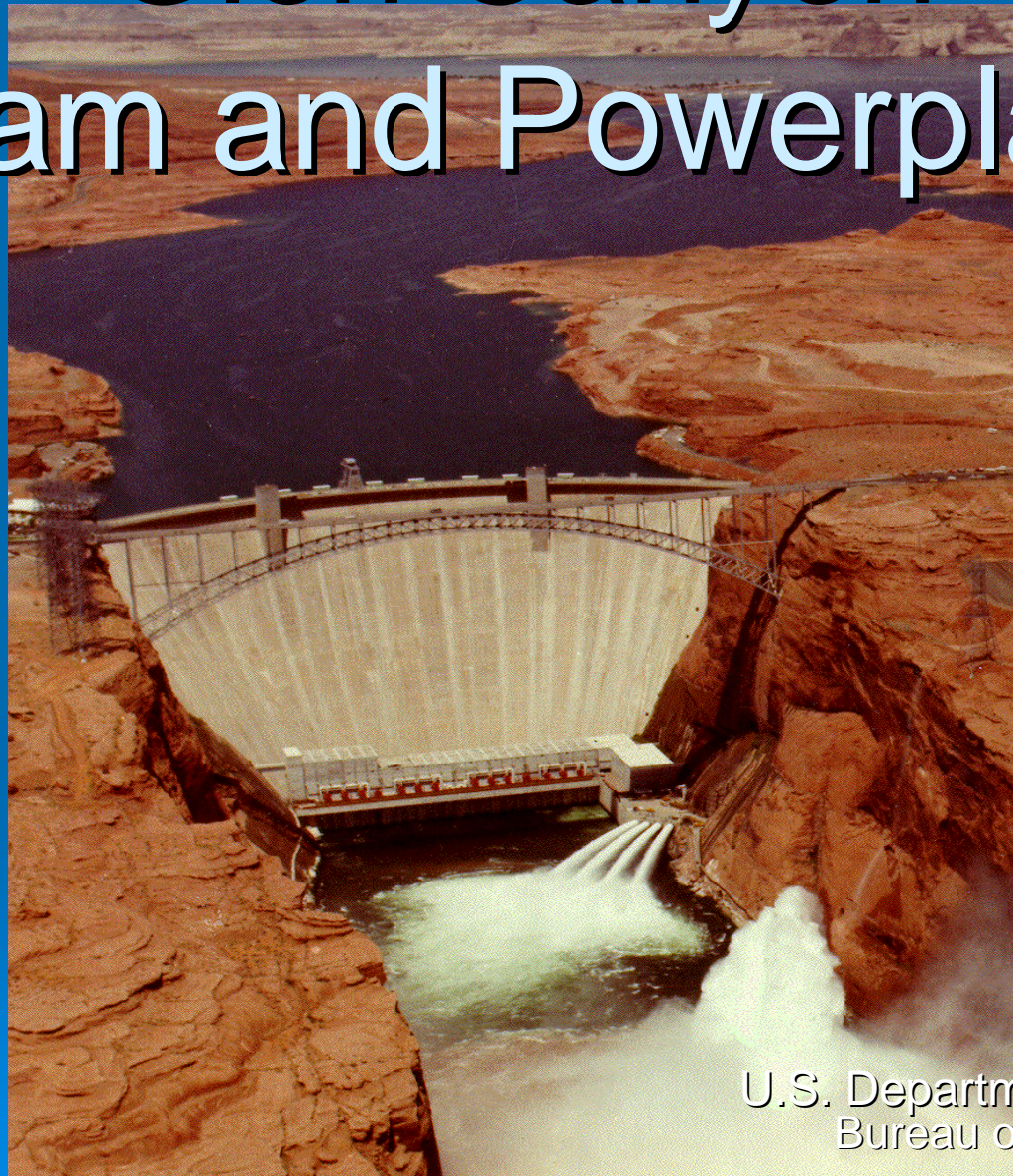


Glen Canyon Dam and Powerplant



U.S. Department of the Interior
Bureau of Reclamation

August 29, 2005

Unit Outage Plan and Strategy



Glen Canyon Outage Schedule

- Schedule reflects October and November for any special Flows.
- Schedule does not reflect any TCD Construction.
- Reflects request from Western to minimize the number of Generators down in the months of June, July, and August.
- Schedule attempts to accomplish Maximum Availability.

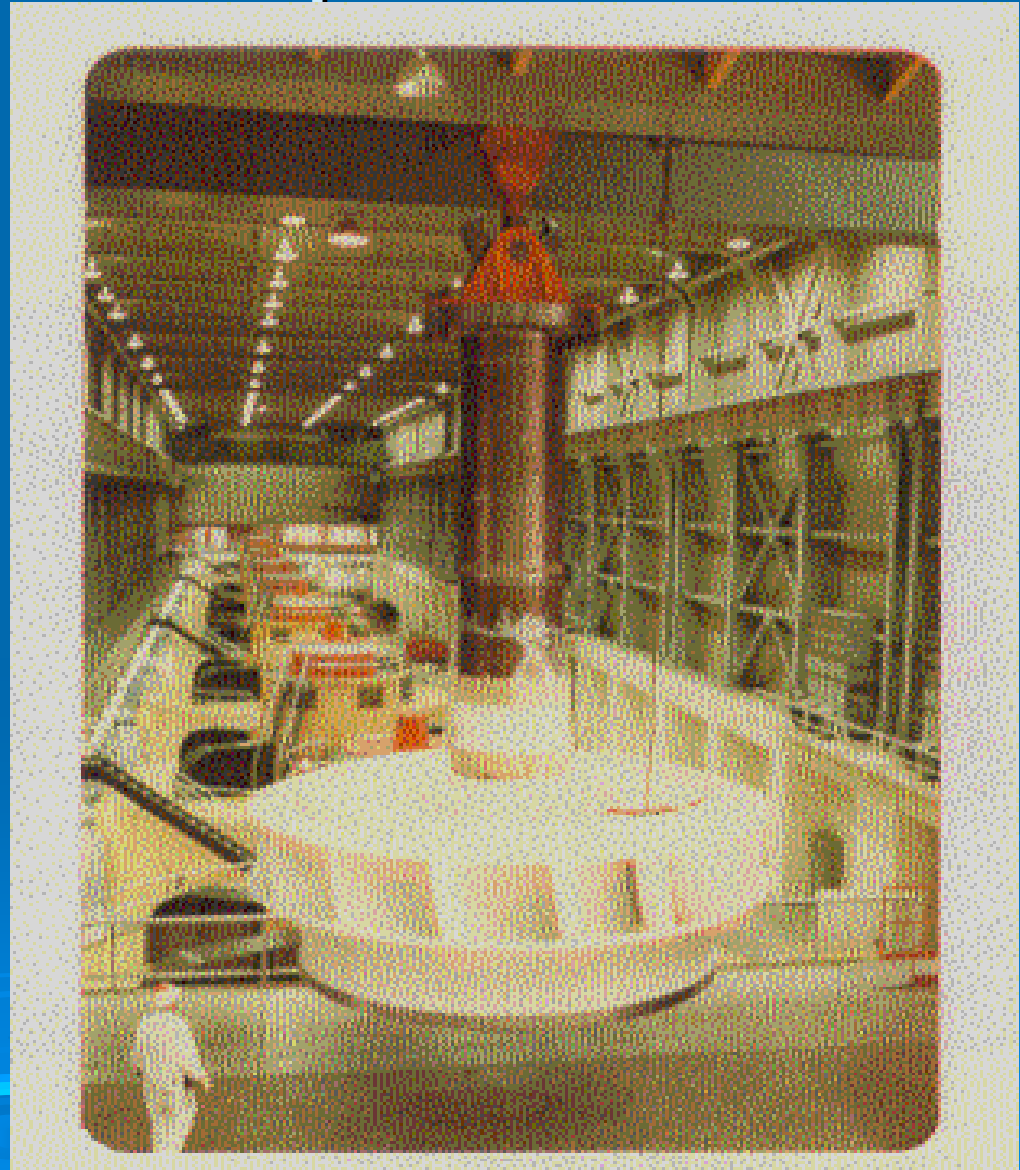
Units 7 Rewind



- 6 Month Outage
- Unit 7 Scheduled for Dec. 2005 – May 2006

Turbine Runner Replacements

- One Turbine Runner Replaced per year starting in September 2006.
- Unit 6 is scheduled first to correspond with the unit rewind.
- Dec. 2006 thru Aug. 2007 Outage Required.
- Schedule Replacements per condition of existing runners.



Five Year Plan

Year One

ID	Task Name	Start	Finish	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Jan '06	Feb '06	Mar '06	Apr '06	May '06	Jun '06	Jul '06
1	Unit 4 Acceptance Test (U-3 may need to be down for a day or so)	Mon 8/8/05	Fri 8/12/05	<div style="border: 1px solid black; padding: 2px;">1</div> Unit 4 Acceptance Test (U-3 may need to be down for a day or so)											
2	Unit 1 Annual	Tue 9/6/05	Mon 9/26/05	<div style="border: 1px solid black; padding: 2px;">2</div> Unit 1 Annual											
3	Unit 2 Annual	Tue 9/6/05	Mon 9/26/05	<div style="border: 1px solid black; padding: 2px;">3</div> Unit 2 Annual											
4	K1A Doble Test, Units 1 & 2 Breaker 5 Year Maintenance	Tue 9/6/05	Mon 9/26/05	<div style="border: 1px solid black; padding: 2px;">4</div> K1A Doble Test, Units 1 & 2 Breaker 5 Year Maintenance											
5	Unit 7 Rewind and Annual	Fri 11/25/05	Fri 6/30/06	Unit 7 Rewind and Annual <div style="border: 1px solid black; padding: 2px;">5</div>											
6	Unit 3 Annual & Hipot	Mon 1/30/06	Fri 2/10/06	<div style="border: 1px solid black; padding: 2px;">6</div> Unit 3 Annual & Hipot											
7	Unit 8 Annual	Mon 2/27/06	Fri 3/10/06	<div style="border: 1px solid black; padding: 2px;">7</div> Unit 8 Annual											
8	Unit 1 Fixed Wheel Gate	Mon 4/10/06	Fri 5/5/06	Unit 1 Fixed Wheel Gate <div style="border: 1px solid black; padding: 2px;">8</div>											
9	Unit 4 Annual	Mon 3/13/06	Fri 3/24/06	<div style="border: 1px solid black; padding: 2px;">9</div> Unit 4 Annual											

Project: Power Point 5 Year-1
Date: Fri 8/12/05

Task	<div style="border: 1px solid black; width: 100px; height: 15px; background-color: #d3d3d3;"></div>	Milestone		External Tasks	<div style="border: 1px solid black; width: 100px; height: 15px; background-color: #d3d3d3;"></div>
Split	<div style="border: 1px solid black; width: 100px; height: 15px; border-style: dotted;"></div>	Summary	<div style="border: 1px solid black; width: 100px; height: 15px; background-color: black;"></div>	External Milestone	
Progress	<div style="border: 1px solid black; width: 100px; height: 15px; background-color: black;"></div>	Project Summary	<div style="border: 1px solid black; width: 100px; height: 15px; background-color: #808080;"></div>	Deadline	

Five Year Plan Year Two

ID	Task Name	Start	Finish	Jul '06	Aug '0	Sep '0	Oct '0	Nov '0	Dec '0	Jan '0	Feb '0	Mar '0	Apr '0	May '0	Jun '0	Jul '07	Aug '0	Sep '0	Oct '0		
1	U-5 Annual	Mon 9/4/06	Fri 9/22/06																		
2	U-6 Annual	Mon 9/4/06	Fri 9/22/06																		
3	K5A Doble Test. Units 5 & 6 Breaker 5 Year Maintenance	Mon 9/4/06	Fri 9/22/06																		
4	Unit 8 Turbine Replacement, Exciter Replacement, Hipot & Annual	Mon 11/27/06	Fri 8/31/07																		
5	Unit 2 Annual	Mon 12/4/06	Fri 12/15/06																		
6	Unit 1 Annual & Exciter Replacement	Mon 1/8/07	Fri 3/2/07																		
7	Unit 4 Annual, Hipot Test & Exciter Replacement	Mon 3/5/07	Fri 4/27/07																		
8	Unit 3 Annual & Exciter Replacement	Mon 4/30/07	Fri 6/22/07																		
9	Unit 7 Annual & Exciter Replacement	Mon 6/25/07	Fri 8/17/07																		
10	K7A Doble Test, Units 7 & 8 Breaker 5 Year Maintenance	Mon 7/16/07	Fri 7/27/07																		
11	Unit 3 Fixed Wheel Gate	Mon 9/3/07	Fri 9/28/07																		

Project: Power Point 5 Year-2
Date: Fri 8/12/05

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

Five Year Plan

Year Three

ID	Task Name	Start	Finish	Dec '07	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	Jul '08	Aug '08	Sep '08
1	Unit 6 Turbine Replacement, Exciter Replacement, Annual & Hipot	Mon 12/3/07	Fri 8/29/08	Unit 6 Turbine Replacement, Exciter Replacement, Annual & Hipot									
2	Unit 5 Annual, Hipot & Exciter Replacement	Mon 1/14/08	Fri 3/7/08										
3	Unit 2 Annual & Exciter Replacement	Mon 3/10/08	Fri 5/2/08										
4	U-1 Annual	Mon 5/5/08	Fri 5/16/08										
5	Unit 3 Annual	Mon 6/9/08	Fri 6/20/08										
6	Unit 7 Annual & Hipot	Mon 6/23/08	Fri 7/4/08										
7	Unit 2 Fixed Wheel Gate	Mon 9/1/08	Fri 9/26/08										
8	Unit 8 Annual	Mon 9/8/08	Fri 9/19/08										

Project: Project2 Date: Fri 8/12/05	Task	Milestone	External Tasks
	Split	Summary	External Milestone
	Progress	Project Summary	Deadline

Outage Schedule Final Points

- Reflects Major Budget Items for Replacement:
 1. Generator Rewind (2001)
 2. Turbine Runner Replacements (2002)
 3. Generator Excitation Units (2000)
- October and November all Units are schedule to be available for High Flows.
- Questions?