United States Department of the Interior

BUREAU OF RECLAMATION
Upper Colorado Region
Power Office
125 South State Street, Room 6107
Salt Lake City, Utah 84138-1102

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April 23, 2012

VIA ELECTRONIC MAIL ONLY

Ms. LaVerne Kyriss
CRSP Manager
Western Area Power Administration
150 E. Social Hall Avenue, Suite 300
Salt Lake City, UT 84111

Subject: Estimates of Project Use Power Requirements

Dear Ms. Kyriss:

Enclosed are tables showing our latest estimates of project use power requirements for the Colorado River Storage Project and Participating Projects. They have been updated starting with the year 2012. If you have any questions, please contact Mr. Blaine Anderson at 801-524-3626.

Sincerely,

/s/

Jane C. Blair
Manager, Power Office

Enclosures - 3

cc: Mr. Rodney Bailey
Ms. Tamala Gheller
Mr. Thomas Hackett
Western Area Power Administration
150 E. Social Hall Avenue, Suite 300
Salt Lake City UT 84111
(w/encl.)

COLORADO RIVER STORAGE PROJECT
Participating Projects
Estimated Project Power Requirements (1)
Table 1

Summer Peak Demands (MW)

Year	Silt	(5) Navajo	Paradox	CUP Jensen	(4) CUP Bonneville	(3) Dolores	Dutch John	(2) Animas-LaPlata	Unassigned (MW)	Total (MW)
2012	0.75	52	0.70	0.93	3.24	15.18 *	0.2328	3.50 (2)	98.47	175
2013	0.75	52	0.70	0.93	3.24	15.18	0.2328	3.50 (2)	98.47	175
2014	0.75	52	0.70	0.93	3.24	15.18	0.2328	3.50 (2)	98.47	175
2015	0.75	52	0.70	0.93	3.24	15.18	0.2328	3.50 (2)	98.47	175
2016	0.75	57	0.70	0.93	7.99	15.18	0.2328	3.50 (2)	88.72	175
2017	0.75	57	0.70	0.93	7.99	15.18	0.2328	3.50 (2)	88.72	175
2018	0.75	57	0.70	0.93	7.99	15.18	0.2328	3.50 (2)	88.72	175
2019	0.75	57	0.70	0.93	7.99	15.18	0.2328	3.50 (2)	88.72	175
2020	0.75	57	0.70	0.93	7.99	15.18	0.2328	3.50 (2)	88.72	175
2021	0.75	61	0.70	0.93	12.74	15.18	0.2328	3.50 (2)	79.97	175
2022	0.75	61	0.70	0.93	12.74	15.18	0.2328	3.50 (2)	79.97	175
2023	0.75	61	0.70	0.93	12.74	15.18	0.2328	3.50 (2)	79.97	175
2024	0.75	61	0.70	0.93	12.74	15.18	0.2328	3.50 (2)	79.97	175
2025	0.75	61	0.70	0.93	12.74	15.18	0.2328	5.00 (2)	78.47	175
2026	0.75	61	0.70	0.93	12.74	15.18	0.2328	5.00 (2)	78.47	175

Summer Energy Use (GWH)

Year	Silt	Navajo	Paradox	CUP Jensen	(4) CUP Bonneville	Dolores	Dutch John	(2) Animas-LaPlata	Total (GWH)
2012	1.5	79	2.2	1.26	13.6	14.38	0.5	2.50 (2)	114.94
2013	1.5	79	2.2	1.26	13.6	14.38	0.5	2.50 (2)	114.94
2014	1.5	79	2.2	1.26	13.6	14.38	0.5	2.50 (2)	114.94
2015	1.5	79	2.2	1.26	13.6	14.38	0.5	3.40 (2)	115.84
2016	1.5	79	2.2	1.26	16.1	14.38	0.5	3.60 (2)	118.54
2017	1.5	79	2.2	1.26	16.1	14.38	0.5	3.80 (2)	118.74
2018	1.5	79	2.2	1.26	16.1	14.38	0.5	4.00 (2)	118.94
2019	1.5	79	2.2	1.26	16.1	14.38	0.5	4.30 (2)	119.24
2020	1.5	79	2.2	1.26	16.1	14.38	0.5	5.80 (2)	120.74
2021	1.5	85	2.2	1.26	18.7	14.38	0.5	6.80 (2)	130.34
2022	1.5	85	2.2	1.26	18.7	14.38	0.5	7.90 (2)	131.44
2023	1.5	85	2.2	1.26	18.7	14.38	0.5	9.00 (2)	132.54
2024	1.5	85	2.2	1.26	18.7	14.38	0.5	10.00 (2)	133.54
2025	1.5	85	2.2	1.26	18.7	14.38	0.5	11.10 (2)	134.64
2026	1.5	85	2.2	1.26	18.7	14.38	0.5	12.30 (2)	135.84

(1) Estimates do not include losses.

(2) Power requirements, after the initial reservoir filling, will be updated as project proponents refine their water development. Current projections assume full non-Ute Indian development by 2030. Full prject development (Indian + Non-Indian) would require a Summer Peak demand of 17.0 MW and a Summer use of 42.0 GWH. The initail reservoir filling started in April 2009.

(3) The capacity for the Dolores Project includes 1.5 MW for the Ute Mt Utes. Energy is not included in the tables.

(4) The major projects for CRSP power are in the early planning stages.

(5) Includes 12 MW transferred from NIIP to Western for NTUA.

* actual demand in past year(s) has been observed to be 11 mw.

COLORADO RIVER STORAGE PROJECT
Participating Projects
Estimated Project Power Requirements (1)
Table 2

Winter Peak Demands (MW)

Year	Silt	Navajo (5)	Paradox	CUP Jensen	CUP (4) Bonneville	Dolores (3)	Dutch John	Animas (2) LaPlata	Unassigned (MW)	Total (MW)
2012	0	13	0.70	0.09	5.71	1.46 *	0.22	0.50 (2)	153.32	175
2013	0	13	0.70	0.09	5.71	1.46	0.22	0.50 (2)	153.32	175
2014	0	13	0.70	0.09	5.71	1.46	0.22	1.20 (2)	152.62	175
2015	0	13	0.70	0.09	5.71	1.46	0.22	1.20 (2)	152.62	175
2016	0	13	0.70	0.09	10.46	1.46	0.22	1.20 (2)	147.87	175
2017	0	13	0.70	0.09	10.46	1.46	0.22	1.20 (2)	147.87	175
2018	0	13	0.70	0.09	10.46	1.46	0.22	1.20 (2)	147.87	175
2019	0	13	0.70	0.09	10.46	1.46	0.22	1.20 (2)	147.87	175
2020	0	13	0.70	0.09	10.46	1.46	0.22	1.20 (2)	147.87	175
2021	0	13	0.70	0.09	15.21	1.46	0.22	1.20 (2)	143.12	175
2022	0	13	0.70	0.09	15.21	1.46	0.22	1.20 (2)	143.12	175
2023	0	13	0.70	0.09	15.21	1.46	0.22	1.20 (2)	143.12	175
2024	0	13	0.70	0.09	15.21	1.46	0.22	1.20 (2)	143.12	175
2025	0	13	0.70	0.09	15.21	1.46	0.22	1.20 (2)	143.12	175
2026	0	13	0.70	0.09	15.21	1.46	0.22	1.20 (2)	143.12	175

Winter Energy Use (GWH)

Year	Silt	Navajo	Paradox	CUP Jensen	CUP (4) Bonneville	Dolores	Dutch John	Animas (2) LaPlata	Total (GWH)
2012	0	2.0	2.2	0.04	15.2	0.45	0.5	0.60 (2)	21.03
2013	0	2.0	2.2	0.04	15.2	0.45	0.5	0.60 (2)	20.99
2014	0	2.0	2.2	0.04	15.2	0.45	0.5	0.90 (2)	21.29
2015	0	2.0	2.2	0.04	15.2	0.45	0.5	0.90 (2)	21.29
2016	0	2.0	2.2	0.04	17.7	0.45	0.5	0.90 (2)	23.79
2017	0	2.0	2.2	0.04	17.7	0.45	0.5	0.90 (2)	23.79
2018	0	2.0	2.2	0.04	17.7	0.45	0.5	0.90 (2)	23.79
2019	0	2.0	2.2	0.04	17.7	0.45	0.5	0.90 (2)	23.79
2020	0	2.0	2.2	0.04	17.7	0.45	0.5	0.90 (2)	23.79
2021	0	2.0	2.2	0.04	20.2	0.45	0.5	0.90 (2)	26.29
2022	0	2.0	2.2	0.04	20.2	0.45	0.5	0.90 (2)	26.29
2023	0	2.0	2.2	0.04	20.2	0.45	0.5	0.90 (2)	26.29
2024	0	2.0	2.2	0.04	20.2	0.45	0.5	0.90 (2)	26.29
2025	0	2.0	2.2	0.04	20.2	0.45	0.5	0.90 (2)	26.29
2026	0	2.0	2.2	0.04	20.2	0.45	0.5	0.90 (2)	26.29

(1) Estimates do not include losses.

(2) Power requirements, after the intial reservoir filling, will be updated as project proponents refine their water development. Current projections assume full non-Ute Indian development by **2030**. Full project development (Indian + Non-Indian) will require a Winter Peak Demand of 10.0 MW and a Winter use of 17.0 GWH. The initial reservoir filling started in April 2009.

(3) The capacity for the Dolores Project includes 1.5 MW for the Ute Mt Utes. Energy is not included in the tables.

(4) The major projects for CRSP power are in the early planning stages.

(5) Includes 12 MW transferred from NIIP to Western for NTUA.

* actual demand in past year(s) has been observed to be 4.7 mw.

Colorado River Storage
Participating Projects
Estimated Project Power Requirements (1)
Table 3

Below are forecasted Pumping Plant Schedules and loads (3)

CUP - Bonneville Unit (4)

Plant/Project Name	In Service	Capacity MW
Deer Creek/Jordanelle exch.	June 1995	1.80
Wasatch County	April 2001	3.00
Starvation Collection System	1970s	0.24
Envir. Commit. (SL Aqueduct)	Use Varies	0.67
Conjunctive Use (50%)	2015	3.50
Conjunctive Use (50%)	2020	3.50
CUPCA Water Cons. Programs (50%)	2015	1.25
CUPCA Water Cons. Programs (50%)	2020	1.25
	Total	15.21

Navajo Tibubal Utility Authority (NTUA) (5)
(transfer from Navajo Agricultural Products Industry) Total 12

Plant Name Navajo Indian Irrigation Project (NIIP)	In Service (5)	Max. Capacity MW
Blocks 4, 5, 6, 7 and Kutz Pumping Plant	In service	34.69
Block 8 (Schedule 1 & 2)	Aug. 2001	0.65
Gallegos Pumping Pl. (7%)	Aug. 2001	2.07
Block 8, Schedule 3 & 4	Apr. 2001	3.21
Gallegos Pumping Plant (21%)	Apr. 2001	6.20
Block 1 (part. Gas to elect.)	Apr. 2002	0.90
Block 9, Stage 1	Apr. 2010	0.22
Gallegos Pumping Plant (0.7%)	Apr. 2010	0.22
Blk9 STG1	2013	0.52
Blk9 STG1	2014	0.81
Blk9 STG1	2015	1.12
Block 9, Stage 2	Aug. 2020	1.50
~~Gallegos Pumping Plant (9%)~~	~~Aug. 2015~~	~~2.75~~
Block 9, Stage 3	Aug. 2024	1.45
Gallegos Pumping Plant (18%)	Aug. 2024	5.31
Moncisco Pumping Pl. (60%)	Aug. 2029	4.74
Block 10	Aug. 2029	1.74
Gallegos Pumping Plant (28%)	Aug. 2029	8.27
Block 11	Aug. 2034	1.87
Gallegos Pumping Plant (19%)	Aug. 2034	5.61
Moncisco Pumping Pl. (40%)	Aug. 2034	3.16
	Total	84.26
	(Round to)	86

Navajo-Gallup Water Supply Project (6)		
San Juan Interim demand	Sept. 2014	0.078
San Juan 2020 demand	Sept. 2023	9.00
Cutter 2020 demand	Dec. 2015	1.72
Cutter + San Juan 2040 demand	2040	27.437
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see Note (6)

(1) The estimates do not include losses.

(2) Deleted (not used) which was Animas LaPlata and is now online

(3) In service dates are subject to change due to funding.

(4) The major projects for CRSP power are in the early planning stages.
See Central Utah Project Completion Program, Supplement to 1988 Definite Plan, Power Appendix, Chapter 5, reference 1.B.02.029.B0.133, Bonneville Unit

(5) Total maximum capacity reserved for NIIP is 87 MW which includes 12 MW currently utilized by NTUA pursuant to contract 87-SLC-0014 as amended.

(6) Authorization for the Navajo-Gallup Water Supply Project (Project) was included in the (Omnibus Public Land Management Act (Act) of 2009, Title X, Part III (Public Law 111-11, March 30, 2009). The Act provides in Section 10602 (e), that: "The Secretary shall reserve, from existing reservations of Colorado River Storage Project power for Bureau of Reclamation projects, up to 26 megawatts of power for use by the Project". While current estimates exceed the amount of power reserved in the legislation, design refinements continue which will result in changes to the estimated total power needs.