

DSW FY11 - FY20 CONSTRUCTION PROGRAM

REF NO.	PROJECT NAME	LOC	PROJECT COST	FY11 TOTALS	FY12 TOTALS	FY13 TOTALS	FY14 TOTALS	FY15 TOTALS	FY16 TOTALS	FY17 TOTALS	FY18 TOTALS	FY19 TOTALS	FY20 TOTALS
1	ED4-ED5 115-kV Transmission Line Rebuild (FY11 Proposed Prepymt)		\$14,982,000	\$ 1,000,000	\$ 12,000,000	\$ 1,982,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Coolidge 230-kV Transformer/Bay Addition (COL 0051C)		\$9,830,000	\$ 6,830,000	\$ 850,000	\$ 2,100,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	Liberty Substation Transformer		\$8,041,000	\$ 6,650,000	\$ 353,000	\$ 988,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	Rebuild Davis 230-kV Switchyard (DAD 0046C)		\$4,651,000	\$ 4,036,000	\$ 565,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Rebuild Davis 69-kV Switchyard (DAD 0043C)		\$800,000	\$ 750,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	Davis 05 Transformer Assembly (DAD 0049C)		\$15,000	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	Gila-Yuma Tap Rebuild (GLAYUT 0012C)		\$3,600,000	\$ 3,450,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Bouse Substation (BSE 0012C)		\$7,932,000	\$ 7,084,000	\$ 798,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	Parker-Bagdad Transmission Line (PADPNT 0002C)		\$365,500	\$ 365,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	Topock Transformer Installation (TOP 0005C)		\$50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	Coolidge-Oracle LiDAR (closeout)		\$10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Casa Grande-Saguaro LiDAR (closeout)		\$10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Tucson-Apache LiDAR (closeout)		\$10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	Coolidge-ED5 LiDAR (closeout)		\$23,361	\$ 23,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Nogales Substation Environmental Assessment		\$500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Cochise Substation Environmental Assessment		\$500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	Mesa Substation Environmental Assessment		\$500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	Davis-Kingman Tap Transmission Line Rebuild (DADMKT 0001C)		\$11,991,000	\$ 300,000	\$ 10,954,000	\$ 677,000	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	Gila-Knob Indian Lawsuit (GLAKNB 0001C)		\$735,000	\$ 147,000	\$ 147,000	\$ 147,000	\$ 147,000	\$ 147,000	\$ -	\$ -	\$ -	\$ -	\$ -
20	ED4-ED2 115-kV Transmission Line Rebuild		\$15,107,000	\$ -	\$ 423,000	\$ 14,064,000	\$ 569,000	\$ 51,000					
21	Gila Substation 34.5/69-kV Rebuild		\$10,697,000	\$ -	\$ 4,000,000	\$ 3,000,000	\$ 3,000,000	\$ 697,000	\$ -	\$ -	\$ -	\$ -	\$ -
22	Coolidge-Valley Farms 115-kV Rebuild		\$6,528,720	\$ -	\$ 3,528,720	\$ 2,950,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	Mead Substation Transformer		\$26,384,000	\$ -	\$ -	\$ 19,292,000	\$ 569,000	\$ 6,138,000	\$ 329,000	\$ 56,000	\$ -	\$ -	\$ -
24	ED5-Saguaro Northern		\$27,263,000	\$ -	\$ -	\$ 505,000	\$ 16,025,000	\$ 10,714,000	\$ 19,000	\$ -	\$ -	\$ -	\$ -
25	Tucson Substation Rebuild at 230-kV		\$11,608,000	\$ -	\$ -	\$ 1,939,000	\$ 3,066,000	\$ 6,551,000	\$ 52,000	\$ -	\$ -	\$ -	\$ -

DSW FY11 - FY20 CONSTRUCTION PROGRAM

REF	PROJECT NAME	LOC	PROJECT COST	FY11 TOTALS	FY12 TOTALS	FY13 TOTALS	FY14 TOTALS	FY15 TOTALS	FY16 TOTALS	FY17 TOTALS	FY18 TOTALS	FY19 TOTALS	FY20 TOTALS
26	ED5-Saguaro Southern		\$27,684,000	\$ -	\$ -	\$ 491,000	\$ 26,633,000	\$ 545,000	\$ 15,000	\$ -	\$ -	\$ -	\$ -
27	Pinnacle Peak-Rogers Right-of-Way Resolution		\$3,300,000	\$ -	\$ -	\$ 3,250,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	Domestic Water Repairs at Mead Substation		\$1,050,000	\$ -	\$ -	\$ 1,000,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	ED5 Substation		\$20,178,000	\$ -	\$ -	\$ -	\$ -	\$ 8,622,000	\$ 700,000	\$ 10,808,000	\$ 48,000	\$ -	\$ -
30	Parker 161-kV Oil Breaker Replacement		\$4,300,000	\$ -	\$ -	\$ -	\$ -	\$ 2,238,000	\$ 2,012,000	\$ 50,000	\$ -	\$ -	\$ -
31	Valley Farms-Oracle 115-kV Rebuild (39.5 miles)		\$47,877,280	\$ -	\$ -	\$ -	\$ -	\$ 10,897,000	\$ 35,890,280	\$ 1,039,000	\$ 51,000	\$ -	\$ -
32	Tucson-Nogales 115-kV Rebuild		\$25,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,650,000	\$ 10,300,000	\$ 50,000	\$ -	\$ -
33	Saguaro-Tucson 115-kV Rebuild		\$44,847,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,816,000	\$ 22,829,000	\$ 1,151,000	\$ 51,000
34	Nogales-Apache 115-kV Rebuild		\$97,627,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,750,000	\$ 30,350,000	\$ 30,200,000	\$ 26,327,000
35	ED2 Substation Rebuild		\$13,484,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,723,000	\$ 761,000
36	ED4 Substation Rebuild		\$10,581,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,849,000	\$ 732,000
37	Casa Grande Substation Rebuild		\$3,999,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,508,000	\$ 2,491,000
38	Black Point Mesa Reroute		\$1,980,508	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000	\$ 1,230,508
39	Saguaro-Oracle 115-kV Rebuild		\$709,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 709,000
40	Mead-Henderson No. 2 230-kV Reconductor		\$278,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 278,000
41	Blythe-Headgate Rock 161-kV Transmission Line (PB#1)		\$20,938,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,938,000
42	Thornton Road-Empire-ED5 Transmission Line Rebuild (FY10 Prepymt)		\$28,100,000	\$ 20,000,000	\$ 7,000,000	\$ 1,100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL CONSTRUCTION PROGRAM			\$52,230,861	\$40,818,720	\$53,585,000	\$50,319,000	\$46,600,000	\$53,667,280	\$53,819,000	\$53,328,000	\$56,181,000	\$53,517,508

ACTIVE PROJECTS	
NEW PROJECTS	
PROPOSED PREPAYMENT PROJECTS	
APPROVED PREPAYMENT PROJ	

DSW FY11 - FY20 RRADS PROGRAM

REF. #	Project Name	LOC	Project Cost	FY11 TOTALS	FY12 TOTALS	FY13 TOTALS	FY14 TOTALS	FY15 TOTALS	FY16 TOTALS	FY17 TOTALS	FY18 TOTALS	FY19 TOTALS	FY20 TOTALS
BOULDER CANYON													
1	Basler Relays	VAR	\$975,000	\$ 30,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000
2	Remove and Replace Line Relays	HVRMED4	\$2,200,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000
3	Remove and Replace Line Relays	HVRMED7	\$120,000	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	Redundant Signal Metering	VAR	\$32,000	\$ 41,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Radio Towers/Grounding	VAR	\$30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL BOULDER CANYON				\$ 441,420	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000

CENTRAL ARIZONA PROJECT													
1	Main Battery and Charger Replacement	HAT	\$57,000	\$ 57,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Main Battery Replacement	SPH	\$55,000	\$ 55,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	Main Battery Replacement	HCR	\$55,000	\$ 55,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	CTs for Revenue Metering		\$300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Liberty Breaker 2382 Completion	LIB	\$5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL CAP				\$ 472,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

COLORADO RIVER STORAGE PROJECT (CRSP)													
1	Physical Security Upgrades	PPK	\$60,000	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Replace Inoperable MOI 2681	PPK	\$65,000	\$ 65,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	Upgrade 230kV Transformer KY1A	GC	\$3,131,530	\$ 831,500	\$ 1,900,030	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	Microwave Upgrades Phoenix to Mexican Hat	MEXHAT	\$2,248,000	\$ 1,224,000	\$ 1,024,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Replace Communication Power Systems (Various Locations)	VAR	\$350,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000
6	WIN/CIP	VAR	\$165,100	\$ 15,000	\$ 30,100	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
7	Pinnacle Peak KU3A Transformer Replacement	PPK	\$200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Flagstaff Sub 345kV Circuit Breaker Replacement	FLG	\$1,580,000	\$ 380,000	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	RTU Upgrades	VAR	\$3,200,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000
10	PPK/GC LiDAR Program	GC	\$150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	Multiple Relay Replacements - GCS 345/230/25kV transformer differential relays, 50BF relays and sync check upgrade	VAR	\$2,506,000	\$ 420,000	\$ 326,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000
12	Physical Security Upgrades Flagstaff	FLG	\$45,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Environmental Support for Clear Cutting		\$2,900,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
14	Vegetation Management		\$990,000	\$ -	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000
15	LiDAR Closeout Prior Year		\$30,000	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Regasket PPK Transformer KU2A	PPK	\$50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	FY10 Carryover Projects: PITT Communication Upgrade		\$20,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

REF. #	Project Name	LOC	Project Cost	FY11 TOTALS	FY12 TOTALS	FY13 TOTALS	FY14 TOTALS	FY15 TOTALS	FY16 TOTALS	FY17 TOTALS	FY18 TOTALS	FY19 TOTALS	FY20 TOTALS
18	FY10 Carryover Projects: CRSP Comm Power Systems		\$16,000	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	Main Battery Replacement	FLG	\$45,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20	Main Battery Replacement	PPK	\$65,000	\$ -	\$ 65,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21	Test Equipment	G52	\$360,000	\$ -	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
22	Radio Towers/Grounding		\$75,000	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	Glen Canyon Phase Shift Bus Differential	GC	\$96,000	\$ -	\$ 96,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	Communication Buildings		\$621,000	\$ -	\$ 501,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
25	Main Battery Replacement	GC	\$65,000	\$ -	\$ -	\$ 65,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	CRSP BA/SCADA Consolidation Comm. Changes		\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Glen Canyon Substation 69kV	GC	\$4,635,000	\$ -	\$ -	\$ 2,000,000	\$ 1,744,000	\$ 742,000	\$ 149,000	\$ -	\$ -	\$ -	\$ -
	TOTAL CRSP			\$ 4,136,500	\$ 6,192,130	\$ 3,570,000	\$ 2,849,000	\$ 1,847,000	\$ 1,254,000	\$ 955,000	\$ 955,000	\$ 955,000	\$ 955,000

INTERTIE													
1	Physical Security Upgrades Liberty Sub	LIB	\$45,000	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	LIB Air Core Reactors KY1A&B, KY2A&B	LIB	\$240,000	\$ 7,000	\$ 233,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	Main Battery Replacement	LIB	\$60,000	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	Mead 230kV RTUs	MED	\$2,520,000	\$ 280,000	\$ -	\$ 280,000	\$ 280,000	\$ 280,000	\$ 280,000	\$ 280,000	\$ 280,000	\$ 280,000	\$ 280,000
5	345kV Line Relay Replacement	VAR	\$2,200,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000
6	Meter Replacement No. 4	VAR	\$40,000	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	230kV & 345kV DFR Installation	VAR	\$156,000	\$ 156,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Mead Phoenix 500kV Line	MED	\$15,000,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
9	VOIP PBX Upgrade	MED	\$108,000	\$ 108,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	Instrument Transformers	MED	\$100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	Mead Facility Complex Air Conditioning for Maintenance Bldg	MED	\$180,000	\$ -	\$ 180,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Test Equipment		\$120,000	\$ -	\$ 40,000	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ -
13	Main Battery Replacement	MED	\$65,000	\$ -	\$ -	\$ -	\$ 65,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	Mead HVAC (main building)	MED	\$20,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Capacitor Bank Replacement PU1A	LIB	\$4,215,000	\$ -	\$ -	\$ 4,005,000	\$ 210,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Breaker Replacement 1582	LIB	\$290,000	\$ -	\$ -	\$ 155,000	\$ 135,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	Radio Towers/Grounding		\$10,000	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL INTERTIE			\$ 2,436,000	\$ 2,283,000	\$ 6,160,000	\$ 2,450,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,040,000	\$ 2,000,000	\$ 2,000,000

PARKER DAVIS													
1	SCADA Hardware/Software	PHX	\$5,000,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
2	Emergency Control Center	PHX	\$3,500,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
3	IT Equipment Upgrade	PHX	\$1,815,000	\$ 150,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000
4	BTP Disconnect Replacement 181 & 281	BTP	\$320,000	\$ 65,000	\$ 255,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Test Equipment	G52	\$1,090,000	\$ 10,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000
6	Wood Pole Replacements	G52	\$22,180,000	\$ 1,000,000	\$ 1,500,000	\$ 2,460,000	\$ 2,460,000	\$ 2,460,000	\$ 2,460,000	\$ 2,460,000	\$ 2,460,000	\$ 2,460,000	\$ 2,460,000
7	Main Battery Replacement	HEN	\$50,000	\$ 45,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Main Battery Replacement	AMR	\$8,000	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	Main Battery Replacement	BLY	\$8,000	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	Paint Transformer COL	COL	\$120,000	\$ 10,000	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

REF. #	Project Name	LOC	Project Cost	FY11 TOTALS	FY12 TOTALS	FY13 TOTALS	FY14 TOTALS	FY15 TOTALS	FY16 TOTALS	FY17 TOTALS	FY18 TOTALS	FY19 TOTALS	FY20 TOTALS
11	Radio Towers/Grounding		\$580,000	\$ 40,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
12	WIN/CIP	COL/PHS	\$1,125,000	\$ 25,000	\$ 100,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
13	JUS Microwave	VAR	\$361,900	\$ 121,900	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	Line Relay Replacement	VAR	\$2,635,000	\$ 325,000	\$ 550,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000	\$ 220,000
15	Power Systems - PCF BLM MTM	BLM MTM	\$35,000	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Test Equipment	G53	\$1,340,000	\$ 10,000	\$ 210,000	\$ 180,000	\$ 100,000	\$ 180,000	\$ 100,000	\$ 180,000	\$ 100,000	\$ 180,000	\$ 100,000
17	Microwave Replacements	VAR	\$2,439,467	\$ 243,963	\$ 243,800	\$ 243,963	\$ 243,963	\$ 243,963	\$ 243,963	\$ 243,963	\$ 243,963	\$ 243,963	\$ 243,963
18	JUS Fiber (oc 48 Upgrades)	VAR	\$2,040,000	\$ 120,000	\$ -	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000
19	Station Relay Replacement	VAR	\$3,625,000	\$ 105,000	\$ -	\$ 440,000	\$ 440,000	\$ 440,000	\$ 440,000	\$ 440,000	\$ 440,000	\$ 440,000	\$ 440,000
20	Replace Communication Bldgs	VAR	\$600,800	\$ 60,000	\$ 60,800	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
21	Tucson-Apache Structure Erosion Control	TUC APE	\$1,450,000	\$ 1,400,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	Saguaro Switch	SAG	\$260,000	\$ 160,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	Casa Grande-Saguaro Lines Hardware	PHX	\$100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	Metal Fence Fabric for Warehouse	PHX	\$150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	Roof Repairs	PHX	\$10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	APO Parking Lot	PHX	\$10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Security Cameras	PHX	\$50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	Main Breaker Replacement Phoenix Substation	PHX	\$50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	Computer Room and MmM Room Air Handler	CXL	\$120,000	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	Hot Stick Trailers/Semis	PHX	\$320,000	\$ 320,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
31	Bull Dozer	PHX	\$500,000	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	VOIP PBX Upgrade	PHX	\$350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
33	Breakers 252 and 552	GLA	\$240,000	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34	DACs Install	PHX	\$50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
35	CRSP BA/SCADA Consolidation Comm. Changes	PHX	\$200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	PHS Voice Recorder	PHX	\$8,500	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
37	UPS System	PHX	\$20,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
38	RTU Upgrades	PHX	\$14,000	\$ 14,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
39	Comm Battery System	PHX	\$12,000	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
40	Physical Security Upgrades Coolidge Sub	COL	\$45,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41	Warehouse Insulator Racks	PHX	\$20,500	\$ -	\$ 20,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
42	Warehouse Golf Carts	PHX	\$19,800	\$ -	\$ 19,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
43	Warehouse Forklift	PHX	\$17,000	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
44	Instrument Transformer & Arrester Replacement Program	VAR	\$720,000	\$ -	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
45	Enviromental, Lands, Access Roads & Row's - Clear Cutting		\$2,550,000	\$ -	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
46	Vegetation Management		\$450,000	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
47	Replace Bucket Truck, JLG Replacement and 2 - RTVs		\$245,000	\$ -	\$ 245,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
48	Coolidge Substation Air Conditioning	COL	\$60,000	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49	Tucson Substation 115kV Circuit Breaker Replacement	TUC	\$160,000	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50	Rough Terrain Crane 70-80 ft	PHX	\$750,000	\$ -	\$ 750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

REF. #	Project Name	LOC	Project Cost	FY11 TOTALS	FY12 TOTALS	FY13 TOTALS	FY14 TOTALS	FY15 TOTALS	FY16 TOTALS	FY17 TOTALS	FY18 TOTALS	FY19 TOTALS	FY20 TOTALS
51	Facilities Services: Equipment, Structures and Grounds	PHX	\$4,350,000	\$ -	\$ 350,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
52	Raritan Replacement	PHX	\$75,000	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
53	Breaker Replacement - 352 Installation	GLA	\$725,000	\$ -	\$ 80,000	\$ 75,000	\$ 230,000	\$ 245,000	\$ 95,000	\$ -	\$ -	\$ -	\$ -
54	Breaker Replacement - 352 Installation	PAD	\$100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
55	Main Station Battery Replacement	GLA	\$180,000	\$ -	\$ -	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
56	Main Station Battery Replacement	AMR	\$50,000	\$ -	\$ -	\$ 45,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
57	Main Station Battery Replacement	CAG	\$50,000	\$ -	\$ -	\$ 45,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
58	Digger Truck	PHX	\$550,000	\$ -	\$ -	\$ -	\$ 550,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
59	Line Truck	PHX	\$490,000	\$ -	\$ -	\$ 490,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
60	Main Station Battery Replacement	SIG	\$50,000	\$ -	\$ -	\$ -	\$ 45,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -
61	Tucson Substation	TUC	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -
62	Tucson Breaker Replacement	TUC	\$664,000	\$ -	\$ -	\$ 82,000	\$ 190,000	\$ 221,000	\$ 171,000	\$ -	\$ -	\$ -	\$ -
63	Breaker Replacement - Parker 230kv Yard	PAD	\$250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -
64	Main Station Battery Replacement	TBD	\$45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL PARKER DAVIS			\$ 6,496,363	\$ 7,541,900	\$ 6,990,963	\$ 7,198,963	\$ 6,979,963	\$ 6,349,963	\$ 6,013,963	\$ 5,933,963	\$ 6,013,963	\$ 5,933,963

	DSW RRADS PROGRAM			\$ 13,982,283	\$ 16,342,030	\$ 17,045,963	\$ 12,822,963	\$ 11,151,963	\$ 9,928,963	\$ 9,293,963	\$ 9,253,963	\$ 9,293,963	\$ 9,213,963
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