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Arizona Corporation Commission
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January 28, 2016

Docket Control
Arizona Corporation Commission
1200 W. Washington Street
Phoenix, AZ 85007

RE: Calculation of Environmental Improvement Surcharge ("EIS") for 2015; Docket No. E-01345A-11-0224; Decision No. 73183

Decision No. 73183 requires Arizona Public Service Company ("APS") to submit on or before February 1st of each year the calculated EIS rate (including all supporting data) that will be effective on April 1st of each year.

Enclosed are the updated EIS Calculations including Schedule 1: Qualified Investments for EIS Electric Plant In Service for Calendar Year 2012 - 2015 and Schedule 2 Capital Carrying Costs and Adjustor Calculation Plant In Service for Calendar Year 2012 - 2015. Please note that Schedule 2 has been redacted as it is confidential until APS files its Form 10K, at which time the information will be re-filed with Docket Control.

In accordance with the EIS Plan of Administration approved in Decision No. 73183, the EIS Rate of $0.000160/kWh will go into effect on April 1, 2016 unless the Commission has otherwise acted or Commission Staff has filed a formal objection by April 1, 2016. Please note that this is less than the calculated rate of $0.000197/kWh due to the cap imposed by Decision No. 73183. Also enclosed is Adjustment Schedule EIS Environmental Improvement Surcharge (both clean and redlined). The average monthly residential bill will increase by six cents based on a monthly energy consumption of 1,100 kWh. Typical customer bill impacts are also enclosed.

If you have any questions regarding this information, please contact Stefanie Layton at (602) 250-4541.

Sincerely,

Kerri C

Kerri A. Carnes

KC/kr

cc: Brian Bozzo
Parties of Record

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Schedule 1: Qualified Investments for EIS
Electric Plant in Service for Calendar Years 2012 - 2015

	(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
1	CHC06828	Cholla Common Remediation Program Monitor Well Addition	The purpose is to ensure continued compliance with Remedial Action Plan submitted to and approved by the Arizona Department of Environmental Quality (ADEQ) in 2009. The wells will characterize the groundwater impacts, determine the source of groundwater impacts on the soil (if possible) and evaluate if remediation of the soil and/or groundwater is warranted. In addition, delineation of the volatile organic compound (VOC) impact to groundwater through the use of hydropunch in the new monitor wells, will aid in the delineation of the VOC source area. The drilling program will also support proper placement of these wells to monitor plant compliance with the APP (Aquifier Protection Permit) requirements.	11/09/2012	$ 46,906	$ 45,312
2	FBC90333	Four Corners Units 4-5 5275 Lift Lined Ash Impoundment	The purpose of this project is to raise embankment of ash Decant pond to add ash disposal volume. The units must dispose of ash in order to operate in compliance with the Federal Resource Conservation and Recovery Act.	11/15/2012	$ 176,639	$ 170,634
3	FCC07179	Four Corners Unit 4 2012 Fabric Filter Bag Replacement	The purpose of this project is for continued environmental compliance with Federal Mercury and Air Toxics Standards in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement.	10/08/2012	$ 174,167	$ 168,245
4	FCC07183	Four Corners Unit 5 2012 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance with Federal Mercury and Air Toxics Standards in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement.	10/08/2012	$ 130,947	$ 126,495
5	WPC06521	West Phoenix Unit 5 ZLD Aux Boiler Replacement	This project provides power to the Zero Liquid Discharge (ZLD), which helps to reduce water usage at West Phoenix Power Plant to meet the water conservation requirements of the Arizona Department of Water Quality 3rd Management Plan for power generators.	11/07/2013	$ 880,434	$ 850,499
6	WPC06476	West Phoenix Combined Cycle 2 Sump Pump Replacement	Replaced aging sump pumps which are necessary to prevent an unauthorized discharge that would be a violation of Aquifer Protection Permit (APP) regulations (A.R.S. §§ 49-201(12) and 241(A)).	1/22/2013	$ 50,803	$ 49,076
7	FCC90396	Four Corners Common Off-Site Resin Regeneration: 150 Demineralizer	The 150 Demineralizer capital project eliminates onsite regeneration of wastewater discharges that have a pH outside the hazardous waste limits of the Resource Conservation and Recovery Act and Clean Water Act and National Pollution Discharge Elimination System pH requirements.	03/27/2013	$ 491,371	$ 474,664
8	FCC07576	Four Corners Unit 4 Flue Gas Duct Expansion Joint Replacement	The purpose of this project is to ensure and maintain expansion joint integrity in the flue gas ductwork to avoid emission leaks. The Four Corners Title V permit requires 20% opacity and replacing the flue gas duct expansion joints ensure that Four Corners meets the Title V requirements. Citation – 40 CFR 49.5512(j)	4/22/2013	$ 64,392	$ 62,203
9	FCC07195	Four Corners Unit 5 2013 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance with Mercury and Air Toxics Standards in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement to ensure required particulate dust capture and removal.	06/07/2013	$ 51,720	$ 49,962

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Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
10	FCC07149	Four Corners Unit 4 2013 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance with Mercury and Air Toxics Standards in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement to ensure required particulate dust capture and removal.	07/03/2013	$ 27,329	$ 26,400
11	FCC07467	Four Corners Common 5280 Lift Lined Ash Impoundment	The purpose of this project is to raise embankments to provide additional ash disposal volume in the Lined Ash Impoundment. The project allows for the remaining ash to be disposed in a lined facility that will prevent pollutant infiltration to groundwater and then into surface water in violation of the Clean Water Act (40 CFR 122).	11/14/2013	$ 262,816	$ 253,880
12	FCC07117	Four Corners Common South Ash Pond Seepage Intercept	The purpose of this project is to intercept seepage water emanating from the ash ponds and prevent potential seeps that could discharge into surface water that could be regulated under the Clean Water Act (40 CFR 122).	12/6/2013	$ 511,572	$ 494,178
13	CHC07745	Cholla Unit 3 Fabric Filter Bag Replacement 2013	The purpose of this project is to ensure continued environmental compliance with Mercury and Air Toxics Standards in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement to ensure required particulate dust capture and removal.	12/11/2013	$ 1,154,908	$ 1,115,641
14	CHC07648	Cholla Unit 3 BART FIP SO2 Compliance	The purpose of this project is to comply with Environmental Protection Agency (EPA) regulatory requirements of maintaining a minimum of 95% SO2 removal as part of the 40 CFR 51.308(e) Best Available Retrofit Technology (BART) Federal Implementation Plan (FIP) to improve emissions. The Unit's compliance date is December 5, 2013. The scope of the project include installation of Unit scrubber inlet continuous emissions monitoring system (CEMS) and updating of the Unit's scrubber automatic controls.	10/4/2013	$ 772,569	$ 746,301
15	CB4MW	Palo Verde Common Monitoring Wells	The installation of the monitor wells will satisfy the Nuclear Energy Institute Groundwater Protection Initiative (NEI GPI) initiative for the detection of inadvertent radiological releases in groundwater. The State of Arizona has governing authority for the protection of the state's groundwater aquifers and issues permits to ensure that the groundwater aquifers are not polluted. Implementation of Palo Verde's Aquifer Protection Permit (APP), including installation of monitoring wells to insure protection of groundwater, is required for continued operation of the facility.	11/15/2013	$ 183,973	$ 177,718
16	WPC0076	West Phoenix Combined Cycle Unit 5 - 5B CO Catalyst	The purpose of this project is to replace the Carbon Monoxide (CO) catalyst to ensure continued compliance with the Title V air permit requirements. Catalyst must be replaced periodically in order to ensure proper CO emmission reduction and avoid a Unit derate. Description: Replace CO catalyst. (Maricopa County Rule 201§302.1(c))	04/16/2014	$ 618,476	$ 597,448

Schedule 1: Qualified Investments for EIS
Electric Plant in Service for Calendar Years 2012 - 2015

	(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
17	WPC05889	West Phoenix Combined Cycle Unit 5 - 5A CO Catalyst	The purpose of this project is to replace the CO catalyst to ensure continued compliance with the Title V air permit requirements. Catalyst must be replaced every 5 to 7 years in order to ensure proper performance. Description: Replace CO catalyst. (Maricopa County Rule 201§302.1(c))	04/19/2014	$ 655,744	$ 633,448
18	SDC05784	Sundance Units 1 & 2 CO Catalyst Replacement	The purpose of this project is to replace the CO Catalyst for Unit 1 and Unit 2 to ensure continued compliance with the Title V air permit requirements. The CO Catalyst requires periodic replacement or rejuvenation in order to ensure proper performance. The CO Catalyst for the remaining units will be replaced in subsequent years. Description: Replace Carbon-Monoxide (CO) Catalyst for Unit 1 and Unit 2.	04/21/2014	$ 626,430	$ 605,131
19	SDC05768	Sundance Units 1 & 2 SCR Catalyst Replacement	The purpose of this project is to replace the CO Catalyst for Unit 1 and Unit 2 to ensure continued compliance with the Title V air permit requirements. The CO Catalyst requires periodic replacement or rejuvenation in order to ensure proper performance. The CO Catalyst for the remaining units will be replaced in subsequent years. Description: Replace the Selective Catalytic Reduction (SCR) Catalyst for Unit 1 and Unit 2.	04/21/2014	$ 653,222	$ 631,012
20	CHC0332	Cholla Common Fly Ash Silo Vent Filter	The purpose of this project is to replace the existing two fly ash silo vent filters with three larger capacity vent filters. Future fly ash capture rate will increase due to the addition of the flue gas fabric filter and planned use of higher ash content coal. Description: Replace Fly Ash Silo Vent Filters. (A.A.C.R18-2-702.B.3 and C)	05/01/2014	$ 1,045,982	$ 1,010,418
21	FCC05792	Four Corners Units 4 & 5 Dry Fly Ash Disposal Area 3	The Dry Fly Ash Deposal Area (DFADA) Site 2 facility will reach capacity by 2015. Continued operation of Units 4 & 5 requires an ash disposal facility for environmentally secure disposal per the Resource Conservation and Recovery Act. Description: Addition of a 52 acre lined dry ash disposal facility to store coal combustion residuals.	11/04/2014	$ 3,131,386	$ 3,024,919
22	FCC07196	Four Corners Unit 4 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance, while maintaining unit operational performance, in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement to ensure continued high efficiency particulate dust capture and removal and compliance with the Particulate Matter (PM) standard defined in the Plant's Title V Permit. Description: Replace the fabric filter bags housed in 12 compartments of the Unit 4 Reverse Air Fabric Filter. (40CFR§49.5512)	11/15/2014	$ 974,261	$ 941,136
23	CHC08077	Cholla Common Bottom Ash Transfer Line Replacement	The purpose of this project is to minimize the risk of a reportable environmental incident (REI) by replacing the sections of the pipe that are at the highest risk of leaking. The existing pipe is approaching the end of its useful life. (40CFR§122)	11/17/2014	$ 693,821	$ 670,231

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Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
24	FCC07972	Four Corners Unit 5 Coal Burners 2E & 2F Replacement	The purpose of this project is to maintain Maximum Acheivable Control Technology (MACT) and increase pulverizer efficiency by replacing two burners (E & F) on 5-2 Pulverizer. The burners are beyond repair and require replacement. Over-firing on other pulverizers causes higher emissions. Description: Replace two complete coal burners (2E & 2F) and replace the damaged windbox steel.	11/18/2014	$ 807,292	$ 779,844
25	FCC07197	Four Corners Unit 5 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance, while maintaining unit operational performance, in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of their serviceable life and require replacement to ensure continued high efficiency particulate dust capture and removal and compliance with the PM standard defined in the Plant's Title V Permit.	11/20/2014	$ 955,004	$ 922,534
26	FCC07572	Four Corners Ash Haul Road Paving	The purpose of this project is to ensure the 2.2 miles of paved haul access road are in a condition suitable for heavy trucks to drive on safely. This road is used solely for ash disposal. Description: Repave degraded portions of the haul access road to maintain adequate road conditions for ash disposal truck operations. (40CFR§49.5512)	12/02/2014	$ 2,212,359	$ 2,137,139
27	WPC08058	West Phoenix Combined Cycle Unit 3 CEMS DAHS Replacement	The purpose of this project is to maintain unit reliability and ensure compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used by plant environmental staff for regulatory compliance reporting. Description: Replace the existing CEMS Process Control Unit (PCU) with a programmable logic controller (PLC); upgrade the existing data acquisition handling system (DAHS) server and install a firewall for secure access to the DAHS and PLC.	12/03/2014	$ 382,186	$ 369,192
28	RHC07714	Redhawk Common Brine Solids Drying Area Level Control Upgrade	The purpose of this project is to mitigate risk of a Reportable Environmental Incident (REI) through improving accuracy of total flow reporting to Arizona Department of Environmental Quality (ADEQ) as required by Aquifer Protection Permit, and to improve reliability of the pond LCRS pumps. Description: Install new electronic flow totalizers for the Leak Collection and Removal System (LCRS) at the existing Brine Solids Drying Area (BSDA) pond. Repower the LCRS pumps with a feed from the 480V Water Treatment MCC, and demolish the existing solar power cent.	12/11/2014	$ 650,947	$ 628,815

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Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
29	RHC07872	Red Hawk CEMS DAHS Replacement	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used for regulatory compliance reporting and requires an upgrade to a new platform to ensure continued OEM support. To ensure continued regulatory compliance as the existing CEMS's PCU will not be able to communicate with the upgraded DAHS server, a replacement of the CEMS's PCU with a PLC will ensure continued communication between the DAHS and CEMS. The firewall will allow the plant to receive remote support and upgrades to the DAHS and CEMS from the OEM to ensure continued up to date regulatory reporting procedures are maintained. Description: Replace the existing continuous emissions monitoring system (CEMS) process control unit (PCU) with a programmable logic controller (PLC), upgrade the existing data acquisition handling system (DAHS) server and install a firewall for secure remote access.	12/16/2014	$ 805,203	$ 777,826
30	WPC08059	West Phoenix Combined Cycle Unit 4CEMS DAHS Replacement	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used for regulatory compliance reporting and requires an upgrade to a new platform to ensure continued OEM support. To ensure continued regulatory compliance as the existing CEMS's PCU will not be able to communicate with the upgraded DAHS server, a replacement of the CEMS's PCU with a PLC will ensure continued communication between the DAHS and CEMS. The firewall will allow the plant to receive remote support and upgrades to the DAHS and CEMS from the OEM to ensure continued up to date regulatory reporting procedures are maintained. Description: Replace the existing continuous emissions monitoring system (CEMS) process control unit (PCU) with a programmable logic controller (PLC), upgrade the existing data acquisition handling system (DAHS) server and install a firewall for secure remote access.	12/17/2014	$ 570,734	$ 551,329
31	FBC90391	Four Corners Unit 4 & 5 Off-Site Resin Regeneration: Polishers	The purpose of this project is to eliminate on-site resin regeneration. The resin regeneration equipment in the Unit 4 & 5 "in-line" demineralizer system is to be demolished and replaced with a header designed to receive vendor supplied resin tanks. The vendor tanks are to be filled with resin that is regenerated at their facilities. Description: Bypass the resin regeneration equipment in the Unit 4 & 5 demineralizer system with vendor supplied resin tanks. Eliminates onsite wastewater discharges that have a pH outside the hazardous waste limits of the Resource Conservation and Recovery Act and Clean Water Act and National Pollution Discharge Elimination System pH requirements.	12/31/2014	$ 1,562,047	$ 1,508,938

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Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
32	CHC0178	Cholla Common CP Rectifier Remote Monitoring	The purpose is to monitor the operation of the cathodic protection systems on a daily basis to ensure optimum levels of cathodic protection are continually applied on metallic substructures to ensure the integrity of the substructure. Currently rectifiers are manually checked every 3-6 months to validate the cathodic protection system condition and ensure it's functionality. As underground assets age, pipeline coatings degrade which greatly increases the importance of an active cathodic protection system to mitigate corrosion. Cathodic protection systems can be out of service for extended periods, only to be discovered out of service upon a 3-6 month interval manual inspection. During this period of non-activity, the underground asset will sustain corrosion damage, eventually requiring repair and/or replacement, and causing a system and/or Unit or Plant outage. The continual application of adequate cathodic protection is a necessity to safeguard underground assets, and continual monitoring of the protection system activity is necessary to ensure continued protection of the asset, and anticipate repair to avoid extended cathodic protection system non-activity. Maintaining pipelines is necessary to prevent an unauthorized discharge that would be a violation of Aquifer Protection Permit (APP) regulations (A.R.S. §§ 49-201(12) and 241(A)).	8/18/2014	$ 95,328	$ 92,087
33	CHC04225	Cholla Unit 1 DAHS-CEMS Upgrade Phase 1	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used for regulatory compliance reporting and requires an upgrade to a new platform to ensure continued OEM support. To ensure continued regulatory compliance as the existing CEMS's PCU will not be able to communicate with the upgraded DAHS server, a replacement of the CEMS's PCU with a PLC will ensure continued communication between the DAHS and CEMS. The firewall will allow the plant to receive remote support and upgrades to the DAHS and CEMS from the OEM to ensure continued up to date regulatory reporting procedures are maintained. (Clean Air Act Title V permit)	10/24/2014	$ 880,893	$ 850,943
34	CHC07536	Cholla Unit 3 DAHS-CEMS Upgrade Phase 1	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. To ensure continued regulatory compliance as the existing CEMS's PCU will not be able to communicate with the upgraded DAHS server (upgraded under CHC04225), a replacement of the CEMS's PCU with a PLC will ensure continued communication between the DAHS and CEMS.	11/25/2014	$ 333,977	$ 322,622
35	CHC07627	Cholla Unit 3 Cooling Tower Chemical Treatment Tanks Replacement	The purpose of this project is to mitigate the risk of violating the plant's Aquifer Protection Permit (APP) from chemical leaks by reducing the amount of acid and bleach piping and fittings between the chemical tanks and cooling tower and by installing Alloy 20 acid piping and double walled bleach piping. Furthermore, the project ensures unit reliability and availability because the existing acid tank has reached the end of its useful life.	12/15/2014	$ 1,740,115	$ 1,680,951

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Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
36	FCC06440	Four Corners Unit 4 Baghouse & SO2 Instru Air Dryers Repl	The dryers were installed in 1981 and have reached the end of their service life. Ultrasonic testing indicates that the vessels are deteriorating. The inspection report dated November 16, 2009 by OEM representative Mesa Equipment indicated that vessel corrosion is causing filter blockage, desiccant contamination and valve malfunction. The OEM representative also indicates that the air dryers are operating at pressure dew points above design and that the air dryers will no longer achieve operation at design pressure dew points due to the deteriorated condition. Piping modifications and mist eliminators were recommended by IZ Systems Inc in their Compressed Air System Audit Final Report dated July 2010. The piping modifications purpose is to place the air receivers downstream of the dryers. The current configuration is that the receivers are upstream of the air dryers. This configuration causes overloading of the dryers when the downstream pressure decays and which for short periods of time the air flow can be 150% of design causing liquids to pass through the dryers. Continued operation of the dryers in their present condition risks maintaining unit reliability and the possibility of a unit forced outage and lost production. (40CFR§49.5512)	1/30/2014	$ 813,279	$ 785,628
37	CHC0134	Cholla Unit 2 Mercury CEMS	The purpose of this project is to ensure compliance in meeting the EPA's 40 CFR 63, Subpart UUUU (commonly called Mercury and Air Toxics Standard or MATS) regulatory standards and reporting requirements. The CEMS system will provide real time continuous Hg emissions measurements at the stack.	9/15/2015	$ 1,613,803	$ 1,558,934
38	CHC08154	Cholla Unit 1 Bottom Ash Screening Facility	The purpose of this project is to recycle bottom ash for beneficial use with the added benefit of reducing ash disposal. This project will install piping for bottom ash to be conveyed through a new screening facility instead of being disposed of in the bottom ash pond.	8/3/2015	$ 161,176	$ 155,696
39	CHC08719	Cholla Common Bottom Ash Monofill Construction	The purpose of this project to increase the Bottom Ash Monofill footprint to accommodate bottom ash disposal for life of plant in accordance with the Plant's Aquifier Protection Permit.	12/10/2015	$ 471,403	$ 455,376
40	FCC07198	Four Corners Unit 4 2015 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance, while maintaining unit operational performance, in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of life and require replacement.	4/20/2015	$ 451,778	$ 436,418
41	FCC07199	Four Corners Unit 5 2015 Fabric Filter Bag Replacement	The purpose of this project is to ensure continued environmental compliance, while maintaining unit operational performance, in the capture and disposal management of fly ash. The fabric filter bags are approaching the end of life and require replacement.	4/15/2015	$ 444,442	$ 429,331
42	FCC08047	Four Corners Unit 4 CEMS DAHS Replacement	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy and Mercury and Air Toxics Standards (MATS).	10/14/2015	$ 925,005	$ 893,555

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Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
43	FCC90394	Four Corners Common Ash Pond 6 Closure	Ash Pond 6 has reached usable service life; requiring closure. The proposed capping system will limit surface water infiltration into the impounded ash, and create an appropriate barrier for surface erosion. As part of the drainage improvement plans, channels, spillway, and stormwater ponds will be constructed to manage stormwater flow in compliance with Clean Water Act/Stormwater Protection/NPDES/CCR.	11/16/2015	$ 1,045,632	$ 1,010,080
44	RHC07951	Redhawk Unit 2 CEMS DAHS Replacement	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used for regulatory compliance reporting.	4/30/2015	$ 744,677	$ 719,358
45	SAC08046	Saguaro Combustion Turbine 3 CEMS DAHS Replacement	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used for regulatory compliance reporting.	3/31/2015	$ 604,127	$ 583,587
46	SDC06692	Sundance Combust Turb Unit 3 & 4 SCR Catalyst	The purpose of this project is to replace the SCR catalyst for two units to ensure continued compliance with the Title V Air Permit requirements. Catalyst must be replaced every 7-10 years in order to ensure proper performance.	10/21/2015	$ 419,285	$ 405,029
47	SDC06693	Sundance Combust Turb Unit 5 & 6 SCR Catalyst	The purpose of this project is to replace the SCR catalyst for two units to ensure continued compliance with the Title V Air Permit requirements. Catalyst must be replaced every 7-10 years in order to ensure proper performance.	10/21/2015	$ 409,554	$ 395,629
48	SDC06694	Sundance Combust Turb Unit 7 SCR Catalyst	The purpose of this project is to replace the SCR catalyst for two units to ensure continued compliance with the Title V Air Permit requirements. Catalyst must be replaced every 7-10 years in order to ensure proper performance.	10/23/2015	$ 435,402	$ 420,598
49	SDC06773	Sundance Combust Turb Unit 3 & 4 CO Catalyst Replacement	The purpose of this project is to replace the CO catalyst for units 3 & 4 to ensure continued compliance with the Title V Air Permit requirements.	10/21/2015	$ 397,127	$ 383,625
50	SDC06774	Sundance Combust Turb Unit 5 & 6 CO Catalyst Replacement	The purpose of this project is to replace the CO catalyst for units 5 & 6 to ensure continued compliance with the Title V Air Permit requirements.	10/21/2015	$ 408,977	$ 395,071
51	SDC06775	Sundance Combust Turb Unit 7 & 8 CO Catalyst Replacement	The purpose of this project is to replace the CO catalyst for units 7 & 8 to ensure continued compliance with the Title V Air Permit requirements.	10/23/2015	$ 359,244	$ 347,030
52	SDC08663	Sundance Combust Turb Units 1-10 Turbine Exhaust Expansion Joint Replacement	The purpose of this project is to maintain unit reliability and ensure compliance with Title V Air Permit requirements. The expansion joint has deteriorated and is approaching the end of useful life creating a potential environmental risk.	11/16/2015	$ 303,241	$ 292,931
53	WPC08060	West Phoenix Combined Cycle 4 CEMS DAHS Replacement	The purpose of this project is to ensure continued compliance with Environmental Protection Agency (EPA) 40 CFR 75 - Part 75 Emissions Monitoring Policy. The DAHS is used for regulatory compliance reporting.	6/20/2015	$ 860,175	$ 830,930
54	WPC08738	West Phoenix Combust Turbine 1 Expansion Joint Replacement	The purpose of this project is to maintain unit reliability and ensure compliance with Title V Air Permit requirements. The expansion joint has deteriorated and is approaching the end of useful life creating a potential environmental and safety risk.	11/18/2015	$ 199,138	$ 192,367
55	WPC08739	West Phoenix Combust Turbine 2 Expansion Joint Replacement	The purpose of this project is to maintain unit reliability and ensure compliance with Title V Air Permit requirements. The expansion joint has deteriorated and is approaching the end of useful life creating a potential environmental and safety risk.	12/8/2015	$ 198,535	$ 191,785

Schedule 1: Qualified Investments for EIS
Electric Plant in Service for Calendar Years 2012 - 2015

	(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Project Tracking Number	Project Name	Purpose	In-Service Date	Total Cost	ACC Jurisdictional Cost
56	WPC08027	West Phoenix Comb Cycle Cmmn Cathodic Protection RMU Replacement	The purpose of this project is to maintain compliance with the Arizona Administrative Code (AAC) by providing reliable readings and alerts for the Cathodic protection system.	4/8/2015	$ 95,935	$ 92,674
57	SDC06776	Sundance Combust Turb Unit 9 & 10 CO Catalyst Replacement	The purpose of this project is to replace the CO catalyst for units 9 & 10 to ensure continued compliance with the Title V Air Permit requirements.	10/31/2015	$ 366,543	$ 354,081
58	FCC08132	Four Corners Unit 4 Lagging and Insulation Replacement on 4&5 Baghouse	The purpose of this project is to maintain compliance with fugitive dust regulations. These replacements are intended to reduce the hazards that exist when lagging and insulation are loose creating fugitive dust issues and concerns.	11/20/2015	$ 507,099	$ 489,858
59	CHC08244	CHOLLA Common CCR Monitoring Wells	Additional monitoring wells are required to comply with the recently released EPA rule [RIN-2050-AE81] regarding the disposal of CCR from power plants. The rule requires that a groundwater monitoring system be installed for all CCR disposal Units (CCR regulations 40 CFR § 257.90 through 257.94).	12/22/2015	$ 531,489	$ 513,418
60	CHC07758	CHOLLA Unit 1 Fabric Filter Bag Replacement 2015	The purpose of this project is to ensure continued reliable performance of the pulse jet fabric filter and unit compliance with the plants Title V Air Permit. The pulse jet fabric filter bags are approaching the end of their useful life and require replacement.	8/28/2015	$ 323,643	$ 312,639
61	SDC06695	Sundance Combust Turb Unit 9 & 10 SCR Catalyst	The purpose of this project is to replace the SCR catalyst for two units to ensure continued compliance with the Title V Air Permit requirements. Catalyst must be replaced every 7-10 years in order to ensure proper performance.	10/31/2015	$ 413,423	$ 399,367
62	FCC08560	Four Corners Unit 4 Absorber Module Overhaul 4S	The purpose of this project is to comply with the 2015 Consent Decree requiring 95% SO2 removal with no bypass.	12/15/2015	$ 3,534,430	$ 3,414,259
63	FCC08561	Four Corners Unit 5 Absorber Module Overhaul 5C	The purpose of this project is to comply with the 2015 Consent Decree requiring 95% SO2 removal with no bypass.	12/15/2015	$ 3,292,672	$ 3,180,721
Totals					$ 44,707,189	$ 43,187,146

CONFIDENTIAL

Schedule 2: Capital Carrying Costs and Adjustor Calculation

Plant in Service Calendar Year 2012 - 2015

Billing Period 4/1/2016 - 3/31/2017

Line No.	EIS Calculation	
	Qualified Plant	
1.	Environmental Improvement Projects (Schedule 1, Total Line Column F)	$43,187,146
2.	Accumulated Depreciation[1]	[redacted]
3.	Cumulative Deferred Tax/Tax Credits[1]	
4.	Qualified Net Plant (Line 1 - Line 2 - Line 3)[1]	
5.	Pre-tax Weighted Average Cost of Capital	11.8560%
	Capital Carrying Cost	
6.	Composite Return on EIS Net Plant (Line 4 * Line 5)[1]	[redacted]
7.	Annual Depreciation of Plant In Service[1]	
8.	Applicable Property Tax[1]	
9.	Associated O&M Expense[1]	
10.	Total EIS Revenue Requirement (Line 6 + Line 7 + Line 8 + Line 9)[1]	
11.	Total Company Sales[1,2]	[redacted]
12.	Calculated EIS Adjustment ($/kWh) (line 10/Line 11)	$ 0.000197
13.	EIS Rate Cap ($/kWh)	$ 0.000160
14.	EIS Rate ($/kWh) (Lesser of Line 12 and Line 13)	$ 0.000160

Note: [1] The information provided on lines 2 through 4 and lines 6 through 11 in this document is confidential until APS files its Form 10K for the year ending on December 31, 2015 (no later than end of first quarter 2016), at which time the information will be made public.

[2] Calendar year 2015 actual retail sales less kWh sales for Rate Schedule E-36-XL and Rate Rider AG-1.

Non Red Lined Version

ADJUSTMENT SCHEDULE EIS
ENVIRONMENTAL IMPROVEMENT SURCHARGE

APPLICATION

The Environmental Improvement Surcharge ("EIS") shall apply to all retail Standard Offer service excluding Rate Schedules E-36 XL, and AG-1. All provisions of the customer's current applicable rate schedule shall apply in addition to charges under this Adjustment Schedule EIS.

The EIS was approved by the Arizona Corporation Commission ("ACC") in Decision No. 69663 and Decision No. 73183.

The EIS recovers the cost associated with investment and expenses for environmental improvements at APS' generation facilities that the ACC has approved for recovery. Approved environmental improvements include those implemented on or after January 1, 2004, for which costs have not been fully recovered under current approved rates, ongoing environmental improvement projects and environmental improvement projects designed to comply with prospective environmental standards required by federal, state, tribal, or local laws or regulations.

RATE

The charge shall be calculated at the following rate:

EIS

All kWh	$0.000160 per kWh

Red Lined Version

ADJUSTMENT SCHEDULE EIS
ENVIRONMENTAL IMPROVEMENT SURCHARGE

APPLICATION

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RATE

The charge shall be calculated at the following rate:

EIS

All kWh	$~~0.0001090~~0.000160 per kWh

ARIZONA PUBLIC SERVICE COMPANY
EIS Projected Impact

	AVERAGE MONTHLY BILL IMPACTS				SEASONAL BILL IMPACTS			
	Current	Proposed			Current	Proposed	Current	Proposed
Residential (Avg - All Rates)	Average Monthly Bill [1]	Average Monthly Bill [1,2]	$ Impact	% Impact	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	1,100				1,337	1,337	863	863
Base Rates	$ 123.90	$ 123.90			$ 161.07	$ 161.07	$ 86.72	$ 86.72
PSA	$ 1.84	$ 1.84			$ 2.24	2.24	$ 1.44	$ 1.44
TCA	$ 7.23	$ 7.23			$ 8.78	$ 8.78	$ 5.67	$ 5.67
RES	$ 3.74	$ 3.74			$ 3.74	$ 3.74	$ 3.74	$ 3.74
DSMAC	$ 2.03	$ 2.03			$ 2.47	$ 2.47	$ 1.59	$ 1.59
EIS	$ 0.12	$ 0.18	$ 0.06	0.04%	$ 0.15	$ 0.21	$ 0.09	$ 0.14
SBA-2	$ (0.56)	$ (0.56)			$ (0.68)	$ (0.68)	$ (0.44)	$ (0.44)
Four Corners	$ 2.52	$ 2.52			$ 3.27	$ 3.27	$ 1.76	$ 1.76
LFCR	$ 2.06	$ 2.06	$ -	0.00%	$ 2.64	$ 2.64	$ 1.47	$ 1.47
Total	$ 142.88	$ 142.94	$ 0.06	0.04%	$ 183.68	$ 183.74	$ 102.04	$ 102.09

Residential (Rate E-12)	Average Monthly Bill [1]	Average Monthly Bill [1,2]	$ Impact	% Impact	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	691				780	780	602	602
Base Rates	$ 86.40	$ 86.40			$ 108.04	$ 108.04	$ 64.76	$ 64.76
PSA	$ 1.16	$ 1.16			$ 1.31	1.31	$ 1.01	$ 1.01
TCA	$ 4.54	$ 4.54			$ 5.12	$ 5.12	$ 3.95	$ 3.95
RES	$ 3.74	$ 3.74			$ 3.74	$ 3.74	$ 3.74	$ 3.74
DSMAC	$ 1.28	$ 1.28			$ 1.44	$ 1.44	$ 1.11	$ 1.11
EIS	$ 0.08	$ 0.11	$ 0.03	0.03%	$ 0.09	$ 0.12	$ 0.07	$ 0.10
SBA-2	$ (0.36)	$ (0.36)			$ (0.40)	$ (0.40)	$ (0.31)	$ (0.31)
Four Corners	$ 1.75	$ 1.75			$ 2.19	$ 2.19	$ 1.31	$ 1.31
LFCR	$ 1.44	$ 1.44	$ -	0.00%	$ 1.77	$ 1.77	$ 1.10	$ 1.10
Total	$ 100.03	$ 100.06	$ 0.03	0.03%	$ 123.30	$ 123.33	$ 76.74	$ 76.77

Commercial XS (E-32)	Average Monthly Bill [1]	Average Monthly Bill [1,2]	$ Impact	% Impact	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	1,430				1,575	1,575	1,285	1,285
Base Rates	$ 202.38	$ 202.38			$ 233.37	$ 233.37	$ 171.39	$ 171.39
PSA	$ 2.40	$ 2.40			$ 2.64	2.64	$ 2.16	$ 2.16
TCA	$ 4.23	$ 4.23			$ 4.65	$ 4.65	$ 3.80	$ 3.80
RES	$ 13.38	$ 13.38			$ 14.73	$ 14.73	$ 12.02	$ 12.02
DSMAC	$ 2.64	$ 2.64			$ 2.91	$ 2.91	$ 2.37	$ 2.37
EIS	$ 0.16	$ 0.23	$ 0.07	0.03%	$ 0.17	$ 0.25	$ 0.14	$ 0.21
SBA-2	$ (0.74)	$ (0.74)			$ (0.81)	$ (0.81)	$ (0.66)	$ (0.66)
Four Corners	$ 4.11	$ 4.11			$ 4.74	$ 4.74	$ 3.48	$ 3.48
LFCR	$ 3.34	$ 3.34	$ -	0.00%	$ 3.83	$ 3.83	$ 2.84	$ 2.84
Total	$ 231.90	$ 231.97	$ 0.07	0.03%	$ 266.23	$ 266.31	$ 197.54	$ 197.61

ARIZONA PUBLIC SERVICE COMPANY
EIS Projected Impact

Commercial S (E-32)	AVERAGE MONTHLY BILL IMPACTS: Current Average Monthly Bill [1]	Proposed Average Monthly Bill [1,2]	$ Impact	% Impact	SEASONAL BILL IMPACTS: Current Summer Monthly Bill	Proposed Summer Monthly Bill	Current Winter Monthly Bill	Proposed Winter Monthly Bill
Average kWh per Month	7,182				7,752	7,752	6,612	6,612
Averge kW per Month	23.7				26.8	26.8	20.6	20.6
Base Rates	$ 842.33	$ 842.33			$ 987.28	$ 987.28	$ 697.38	$ 697.38
PSA	$ 12.06	$ 12.06			$ 13.01	$ 13.01	$ 11.10	$ 11.10
TCA	$ 22.45	$ 22.45			$ 25.38	$ 25.38	$ 19.51	$ 19.51
RES	$ 67.19	$ 67.19			$ 72.52	$ 72.52	$ 61.86	$ 61.86
DSMAC	$ 16.50	$ 16.50			$ 18.65	$ 18.65	$ 14.34	$ 14.34
EIS	$ 0.78	$ 1.15	$ 0.37	0.16%	$ 0.84	$ 1.24	$ 0.72	$ 1.06
SBA-2	$ (3.68)	$ (3.68)			$ (3.97)	$ (3.97)	$ (3.39)	$ (3.39)
Four Corners	$ 17.10	$ 17.10			$ 20.04	$ 20.04	$ 14.16	$ 14.16
LFCR	$ 14.22	$ 14.23	$ 0.01	0.00%	$ 16.54	$ 16.55	$ 11.90	$ 11.91
Total	$ 988.95	$ 989.33	$ 0.38	0.04%	$ 1,150.29	$ 1,150.70	$ 827.58	$ 827.93

Commercial - M (E-32)	Average Monthly Bill [1]	Average Monthly Bill [1,2]	$ Impact	% Impact	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	62,238	62,238			68,381	68,381	56,094	56,094
Averge kW per Month	195.7				209.5	209.5	181.8	181.8
Base Rates	$ 6,431.10	$ 6,431.10			$ 7,407.24	$ 7,407.24	$ 5,454.95	$ 5,454.95
PSA	$ 104.44	$ 104.44			$ 114.74	$ 114.74	$ 94.13	$ 94.13
TCA	$ 185.28	$ 185.28			$ 198.40	$ 198.40	$ 172.16	$ 172.16
RES	$ 233.88	$ 233.88			$ 233.88	$ 233.88	$ 233.88	$ 233.88
DSMAC	$ 136.17	$ 136.17			$ 145.81	$ 145.81	$ 126.53	$ 126.53
EIS	$ 6.78	$ 9.96	$ 3.18	0.04%	$ 7.45	$ 10.94	$ 6.11	$ 8.98
SBA-2	$ (31.87)	$ (31.87)			$ (35.01)	$ (35.01)	$ (28.72)	$ (28.72)
Four Corners	$ 130.56	$ 130.56			$ 150.37	$ 150.37	$ 110.74	$ 110.74
LFCR	$ 105.01	$ 105.06	$ 0.05	0.00%	$ 119.99	$ 120.04	$ 90.03	$ 90.07
Total	$ 7,301.35	$ 7,304.58	$ 3.23	0.04%	$ 8,342.87	$ 8,346.41	$ 6,259.81	$ 6,262.72

Commercial - L (E-32)	Average Monthly Bill [1]	Average Monthly Bill [1,2]	$ Impact	% Impact	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	290,507	290,507			314,925	314,925	266,089	266,089
Average kW per Month	716.5				795	795	638	638
Base Rates	$ 24,707.54	$ 24,707.54			$ 29,453.69	$ 29,453.69	$ 19,961.38	$ 19,961.38
PSA	$ 487.48	$ 487.48			$ 528.45	$ 528.45	$ 446.50	$ 446.50
TCA	$ 678.53	$ 678.53			$ 752.87	$ 752.87	$ 604.19	$ 604.19
RES	$ 467.75	$ 467.75			$ 467.75	$ 467.75	$ 467.75	$ 467.75
DSMAC	$ 498.69	$ 498.69			$ 553.32	$ 553.32	$ 444.05	$ 444.05
EIS	$ 31.67	$ 46.48	$ 14.81	0.05%	$ 34.33	$ 50.39	$ 29.00	$ 42.57
SBA-2	$ (148.74)	$ (148.74)			$ (161.24)	$ (161.24)	$ (136.24)	$ (136.24)
Four Corners	$ 501.57	$ 501.57			$ 597.91	$ 597.91	$ 405.22	$ 405.22
LFCR	$ -	$ -			$ -	$ -	$ -	$ -
Total	$ 27,224.49	$ 27,239.30	$ 14.81	0.05%	$ 32,227.08	$ 32,243.14	$ 22,221.85	$ 22,235.42

ARIZONA PUBLIC SERVICE COMPANY
EIS Projected Impact

	AVERAGE MONTHLY BILL IMPACTS				SEASONAL BILL IMPACTS			
	Current	Proposed			Current	Proposed	Current	Proposed
Industrial - XL (E-34,35)	Average Monthly Bill [1]	Average Monthly Bill [1,2]	$ Impact	% Impact	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	3,693,933	3,693,933			3,841,873	3,841,873	3,545,992	3,545,992
Averge kW per Month	6,369.5				6,681	6,681	6,058	6,058
Base Rates	$ 251,228.00	$ 251,228.00			$ 262,539.00	$ 262,539.00	$ 239,917.00	$ 239,917.00
PSA	$ 6,198.42	$ 6,198.42			$ 6,446.66	$ 6,446.66	$ 5,950.17	$ 5,950.17
TCA	$ 7,496.91	$ 7,496.91			$ 7,863.54	$ 7,863.54	$ 7,130.27	$ 7,130.27
RES	$ 3,040.00	$ 3,040.00			$ 3,040.00	$ 3,040.00	$ 3,040.00	$ 3,040.00
DSMAC	$ 4,433.18	$ 4,433.18			$ 4,649.98	$ 4,649.98	$ 4,216.37	$ 4,216.37
EIS	$ 402.64	$ 591.03	$ 188.39	0.07%	$ 418.76	$ 614.70	$ 386.51	$ 567.36
SBA-2	$ (1,891.30)	$ (1,891.30)			$ (1,967.04)	$ (1,967.04)	$ (1,815.55)	$ (1,815.55)
Four Corners	$ 5,099.93	$ 5,099.93			$ 5,329.54	$ 5,329.54	$ 4,870.32	$ 4,870.32
LFCR	$ -	$ -			$ -	$ -	$ -	$ -
Total	$ 276,007.78	$ 276,196.17	$ 188.39	0.07%	$ 288,320.44	$ 288,516.38	$ 263,695.09	$ 263,875.94

Notes:
(1) Bill excludes regulatory assessment charge, taxes and fees. All Adjustor levels in effect as of February 1, 2016.
(2) Bill includes the projected impact to customers of the reset of the EIS adjustor.