Intermountain Gas Company

Capacity Enhancement Alternatives NPV by AOI

2025 – 2030

Exhibit No. 6

Intermountain Gas Company
Ada County AOI
Net Present Value

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
N/A	New Plymouth Gate Upgrade	Facility	N/A	($3,477,264)	$ (3,640,000)	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
N/A	State Penn Gate Upgrade	Facility	N/A	($2,846,771)	$ (2,980,000)	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
N/A	Caldwell Reinforcement	5.06 miles - 6 inch DP	Distribution O&M per mile of pipe added	($3,572,906)	$ (3,650,000)	$ (14,547)	$ (14,838)	$ (15,135)	$ (15,438)	$ (15,746)	$ (16,061)	$ (16,383)
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ (16,710)	$ (17,044)	$ (17,385)	$ (17,733)	$ (18,088)	$ (18,449)	$ (18,818)	$ (19,195)	$ (19,579)	$ (19,970)	$ (20,370)	$ (20,777)	$ (21,193)

Intermountain Gas Company
State Street AOI
Net Present Value

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
N/A	State Street Phase II Uprate	Uprate existing 2.2 miles - 12 inch HP (12 inch becomes transmission) and 2 miles of 4 inch HP	Transmission O&M per mile minus Distribution O&M per mile for pipe that would go to transmission main	($1,085,641)	$ (1,200,000)	$ 4,208	$ 4,293	$ 4,378	$ 4,466	$ 4,555	$ 4,646	$ 4,739
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ 4,834	$ 4,931	$ 5,029	$ 5,130	$ 5,233	$ 5,337	$ 5,444	$ 5,553	$ 5,664	$ 5,777	$ 5,893	$ 6,011	$ 6,131

Intermountain Gas Company
Idaho Falls Lateral AOI
Net Present Value

2026 Deficit

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
N/A	Wapello Compressor Station	Compressor	Compressor O&M cost per year	($34,783,485)	$ (32,520,992)	$ (257,621)	$ (262,774)	$ (268,029)	$ (273,390)	$ (278,857)	$ (284,435)	$ (290,123)
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ (295,926)	$ (301,844)	$ (307,881)	$ (314,039)	$ (320,320)	$ (326,726)	$ (333,260)	$ (339,926)	$ (346,724)	$ (353,659)	$ (360,732)	$ (367,946)	$ (375,305)

2030 Deficit

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
1	Fort Hall Compressor Station	Compressor	Compressor O&M cost per year	($48,359,768)	$ (46,732,645)	$ (257,621)	$ (262,774)	$ (268,029)	$ (273,390)	$ (278,857)	$ (284,435)	$ (290,123)
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ (295,926)	$ (301,844)	$ (307,881)	$ (314,039)	$ (320,320)	$ (326,726)	$ (333,260)	$ (339,926)	$ (346,724)	$ (353,659)	$ (360,732)	$ (367,946)	$ (375,305)

2030 Deficit

Alternative #	Alternative Description	Details	O&M Cost Used for NPV	Net Present Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
2	Compressor Suction Pipeline Reinforcement	8.5 miles of 16-inch Transmission	Transmission O&M cost per year	($40,240,247)	$ (42,000,000)	$ (8,178)	$ (8,341)	$ (8,508)	$ (8,678)	$ (8,852)	$ (9,029)	$ (9,209)
Year 8	**Year 9**	**Year 10**	**Year 11**	**Year 12**	**Year 13**	**Year 14**	**Year 15**	**Year 16**	**Year 17**	**Year 18**	**Year 19**	**Year 20**
$ (9,394)	$ (9,581)	$ (9,773)	$ (9,968)	$ (10,168)	$ (10,371)	$ (10,579)	$ (10,790)	$ (11,006)	$ (11,226)	$ (11,451)	$ (11,680)	$ (11,913)

Intermountain Gas Company
Transmission O&M Cost per Mile per Year

Sub Account	Description	From Accounting Records 2022	From FERC Form 2 2021	From FERC Form 2 2020	3-Year Average
	Operation Expense:				
28520	Communication System Expenses	24,308.33	$ 30,703.63	33,366.62	
28560	Mains Expenses	1,793.54	1,805.21	2,088.74	
	Maintenance Expense:				
28630	Maintenance of Mains	125,200.04	26,172.53	12,617.11	
28631	Maintenance of Mains			142,328.11	
28660	Maintenance of Communication Equip	139,601.91	131,969.39	139,345.50	
	Total	$ 290,903.82	$ 190,650.76	$ 329,746.08	
	Total Miles of Transmission Line	284	279.49	279.5	
	O&M Cost per Mile	$ 1,024.31	$ 682.14	$ 1,179.77	$ 962.07

Intermountain Gas Company
Distribution Main O&M Cost per Mile per Year

Sub Accoun	Description	From FERC Form 2 2022	From FERC Form 2 2021	From FERC Form 2 2020	3-Year Average
	Distribution O&M Expenses	$ 25,445,520	$ 24,742,508	$ 21,886,836	
28920	Less: Maintenance of Services	$ (3,084,202)	$ (3,604,219)	$ (2,669,868)	
28930	Less: Maintenance of Meters and H	$ (1,350,994)	$ (988,180)	$ (864,005)	
	Total Distribution O&M Expenses	$ 21,010,324	$ 20,150,109	$ 18,352,963	
	Total Miles of Distribution Line	7,155.00	6,970.00	6,560.63	
	O&M Cost per Mile	$ 2,936.45	$ 2,890.98	$ 2,797.44	$ 2,874.96

Intermountain Gas Company
Compressor Station Operations and Maintenance Estimate

Jerome

Description	Frequency (Yrs)	Unit Price	Annualized Cost	Notes
Annual Service Overhaul	1	$15,000	$15,000	materials, labor and travel 15K Jerome 25K Shoshone
Misc Repair	2	$2,500	$1,250	example: Bettis actuator failure in 2016/2017, starting system repair 2020,
Every 8000 hr Maintenance	10	$60,000	$6,000	est cost and frequency
Oil Change	2	$1,200	$600	est cost and frequency
Emissions Test	3	$6,000	$2,000	3 year requirement
Misc Maintenance	1	$5,000	$5,000	land, fence, paint, electricity *added 2900 budgeted amount electricity*
Weekly Check (winter)	1	$8,960	$8,960	1 Operators for 4 hrs a week for 4 months
Monthly Startup (Fall, winter, Spring)	1	$20,160	$20,160	2 Operators for 8 hrs a month for 9 months
Monthly Check (non-winter)	1	$3,360	$3,360	1 Operator for 8 hrs a month for 3 months
Peak Shaving Operators	1	$11,200	$11,200	2 Operators for 8 hrs a day for 5 days a year…
Peak Shaving Operators STBY	1	$20,520	$20,520	1 Operators for 18 hours per week per CWE (2022-23 was 76 days) 50/50 Jerome and SS
Test Run - NG Fuel	1	$822	$822	6 hr/month for 9 months at 50 th/hr and $0.50/th (WACOG cost of gas 2023) *updated with budgeted amounts fy'21*
Peak Shaving - NG Fuel	1	$1,827	$1,827	5 days at 24 hrs/day and 50 th/hr at $0.50/th (WACOG cost of gas 2023)
		Estimated Total Annual Costs:	**$96,700**	

Shoshone

Description	Frequency (Yrs)	Unit Price	Annualized Cost	Notes
Annual Service Overhaul	1	$25,000	$25,000	materials, labor and travel
Misc Repair	2	$10,000	$5,000	example: Bettis actuator failure in 2016/2017, starting system repair 2020,
Every 8000 hr Maintenance	10	$60,000	$6,000	est cost and frequency
Oil Change	2	$6,000	$3,000	est cost and frequency
Emissions Test	3	$6,000	$2,000	3 year requirement
Misc Maintenance	1	$5,000	$5,000	land, fence, paint, electricity *added 3000 budgeted amount electricity*
Weekly Check (winter)	1	$17,920	$17,920	1 Operators for 8 hrs a week for 4 months
Monthly Startup (Fall, winter, Spring)	1	$20,160	$20,160	2 Operators for 8 hrs a month for 9 months
Monthly Check (non-winter)	1	$3,360	$3,360	1 Operator for 8 hrs a month for 3 months
Peak Shaving Operators	1	$33,600	$33,600	2 Operators for 8 hrs a day for 15 days a year…
Peak Shaving Operators STBY	1	$20,520	$20,520	1 Operators for 18 hours per week per CWE (2022-23 was 76 days) 50/50 Jerome and SS
Test Run - NG Fuel	1	$2,960	$2,960	6 hr/month for 9 months at 180 th/hr and $0.50/th (WACOG cost of gas 2023) *updated with budgeted amounts fy'21*
Peak Shaving - NG Fuel	1	$19,735	$19,735	15 days at 24 hrs/day and 180 th/hr at $0.50/th (WACOG cost of gas 2023)
		Estimated Total Annual Costs:	**$164,255**	

*Assumed Operator salary is $140/hr loaded

Wapello Compressors (2 as of 2024)

Description	Frequency (Yrs)	Unit Price	Annualized Cost	Notes
Annual Service Overhaul	1	$40,000	$40,000	materials, labor and travel 20K each engine
Misc Repair	2	$50,000	$25,000	example: Valve repairs, or computer tuning, or safety device
Every 8000 hr Maintenance	10	$60,000	$6,000	est cost and frequency
Oil Change every 2,000 hours	5	$6,000	$1,200	est cost and frequency
Emissions Test	3	$10,000	$3,333	3 year requirement unless extension is granted
Misc Maintenance	1	$8,000	$8,000	land, fence, paint, electricity *added 3500 budgeted amount electricity*
Weekly Check (winter)	1	$35,840	$35,840	2 Operators for 8 hrs a week for 4 months
Monthly Startup (Fall, winter, Spring)	1	$20,160	$20,160	2 Operators for 8 hrs a month for 9 months
Monthly Check (non-winter)	1	$3,360	$3,360	1 Operator for 8 hrs a month for 3 months
Peak Shaving Operators	1	$31,360	$31,360	2 Operators for 8 hrs a day for 14 days a year…assuming the compressor will run every year
Peak Shaving Operators STBY	1	$45,360	$45,360	1 Operators for 18 hours per week per peak shaving times of Dec - Feb
Test Run - NG Fuel	1	$17,542	$17,542	6 hr/month for 9 months at 200 th/hr and $0.50/th (WACOG cost of gas 2023)*updated with budgeted amounts fy'21*
Peak Shaving - NG Fuel	1	$20,466	$20,466	14 days at 24 hrs/day and 200 th/hr at $0.50/th (WACOG cost of gas 2023)
		Estimated Total Annual Costs:	**$257,621**	

*Assumed Operator salary is $140/hr loaded

Idaho Estimated Total Annual Costs for 4 Compressors **$518,576**