Appendix R2.15

Mineral Resources

Appendix R2.15 Mineral Resources

This appendix presents data supporting the analysis in Volume IV, Chapter IV.15. This appendix is organized as follows:

- Section R2.15.1 – No Action Alternative: Tables R2.15-1 through R2.15-2
- Section R2.15.2 – Preferred Alternative: Tables R2.15-3 through R2.15-4
- Section R2.15.3 – Alternative 1: Tables R2.15-5 through R2.15-6
- Section R2.15.4 – Alternative 2: Tables R2.15-7 through R2.15-8
- Section R2.15.5 – Alternative 3: Tables R2.15-9 through R2.15-10
- Section R2.15.6 – Alternative 4: Tables R2.15-11 through R2.15-12

Note on Rounding of Data. The following general rounding rules were applied to calculated values: values greater than 1,000 were rounded to nearest 1,000; values less than 1,000 and greater than 100 were rounded to the nearest 100; values of 100 or less were rounded to the nearest 10, and therefore totals may not sum due to rounding. In cases where subtotals are provided, the subtotals and the totals are individually rounded. The totals are not a sum of the rounded subtotals; therefore the subtotals may not sum to the total within the table.

R2.15.1 No Action Alternative

Table R2.15-1
Potential Acres of Mineral Resource Impacts by Technology Type by Subarea – No Action Alternative

Subarea	Mineral Resources in Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	3,000	0	0	60
High Priority Mineral & Energy Locations	3,000	0	0	0	0
Rare Earth Element Areas	2,000	40	0	0	0
Locatable Mineral Areas	53,00	1,000	0	0	200
Leasable Mineral Areas	47,000	0	0	0	0
Mineral Material Areas	6,000	200	0	0	200
Imperial and Borrego Valley					
Geothermal Resources	316,000	4,000	400	300	4,000
High Potential Mineral Areas	195,000	500	50	40	1,000
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	300	40	30	300
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	1,000	0	0	0
High Priority Mineral & Energy Locations	10,000	300	0	0	0
Rare Earth Element Areas	43,000	1,000	0	0	0
Locatable Mineral Areas	69,304	2,000	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,040	300	0	0	0

Table R2.15-1
Potential Acres of Mineral Resource Impacts by Technology Type by Subarea – No Action Alternative

Subarea	Mineral Resources in Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Mojave and Silurian Valley					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	159,000	0	0	0	100
High Priority Mineral & Energy Locations	50	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	0	0	0	20
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	0	0	0
Owens River Valley					
Geothermal Resources	15,000	0	0	0	0
High Potential Mineral Areas	400	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	0	0	0	0
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	0	0	0	0
High Priority Mineral & Energy Locations	58,000	0	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	6,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,700	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0

Table R2.15-1
Potential Acres of Mineral Resource Impacts by Technology Type by Subarea – No Action Alternative

Subarea	Mineral Resources in Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
High Potential Mineral Areas	93,000	100	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	20	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	0	0	0	0
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	1,000	0	0	200
High Priority Mineral & Energy Locations	21,000	100	0	0	40
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	1,000	0	0	200
Leasable Mineral Areas	37,000	0	0	0	0
Mineral Material Areas	9,000	200	0	0	0
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	106,000	400	200	0	100
High Priority Mineral & Energy Locations	0	0	0	0	0

Table R2.15-1
Potential Acres of Mineral Resource Impacts by Technology Type by Subarea – No Action Alternative

Subarea	Mineral Resources in Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	50	30	0	40
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	20	0	0	0
Total					
Geothermal Resources	347,000	4,000	400	300	4,000
High Potential Mineral Areas	1,519,000	6,000	300	40	1,000
High Priority Mineral & Energy Locations	101,000	400	0	0	40
Rare Earth Element Areas	59,000	800	0	0	0
Locatable Mineral Areas	348,000	4,000	30	0	500
Leasable Mineral Areas	84,000	0	0	0	0
Mineral Material Areas	101,000	1,000	40	30	500

Table R2.15-2
Estimated Acres of Mineral Resources in Conservation and Protect Areas by Subarea – No Action Alternative

Mineral Resources	Mineral Resources in Subarea (acres)	Existing Protected Areas (acres)	BLM Conservation Designations (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains				
Geothermal Resources	0	0	0	0
High Potential Mineral Areas	240,000	96,000	12,000	45.1
High Priority Mineral & Energy Locations	3,000	0	0	0
Rare Earth Element Areas	2,000	1,000	810	89.6
Locatable Mineral Areas	53,000	600	22,000	41.5
Leasable Mineral Areas	47,000	0	0	0.02
Mineral Material Areas	6,000	0	0	0
Imperial and Borrego Valley				
Geothermal Resources	316,000	11,000	9,000	6.4
High Potential Mineral Areas	195,000	13,000	16,000	14.6
High Priority Mineral & Energy Locations	9,000	0	0	0.01
Rare Earth Element Areas	0	0	0	0
Locatable Mineral Areas	53,000	200	40	0.5
Leasable Mineral Areas	0	0	0	0
Mineral Material Areas	26,000	300	2,000	9.6
Kingston and Funeral Mountains				
Geothermal Resources	0	0	0	0
High Potential Mineral Areas	132,000	67,000	7,000	56.3
High Priority Mineral & Energy Locations	10,000	100	0	1.0
Rare Earth Element Areas	43,000	17,000	3,000	45.6
Locatable Mineral Areas	69,000	5,000	2,000	36.4
Leasable Mineral Areas	0	0	0	0.00
Mineral Material Areas	9,000	0	1,000	15.5

Table R2.15-2
Estimated Acres of Mineral Resources in Conservation and Protect Areas by Subarea – No Action Alternative

Mineral Resources	Mineral Resources in Subarea (acres)	Existing Protected Areas (acres)	BLM Conservation Designations (acres)	Percent in Conservation
Mojave and Silurian Valley				
Geothermal Resources	8,000	5,000	2,000	85
High Potential Mineral Areas	159,000	68,000	35,000	64.8
High Priority Mineral & Energy Locations	50	0	0	0
Rare Earth Element Areas	0	0	0	0
Locatable Mineral Areas	11,000	100	5,600	52
Leasable Mineral Areas	0	0	0	0
Mineral Material Areas	240	0	0	1.05
Owens River Valley				
Geothermal Resources	15,000	300	0	2.2
High Potential Mineral Areas	400	0	0	0.2
High Priority Mineral & Energy Locations	0	0	0	0
Rare Earth Element Areas	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0
Leasable Mineral Areas	0	0	0	0
Mineral Material Areas	2,000	100	200	17.9
Panamint Death Valley				
Geothermal Resources	0	0	0	0
High Potential Mineral Areas	310,000	247,000	600	79.9
High Priority Mineral & Energy Locations	58,000	0	0	0
Rare Earth Element Areas	2,000	700	100	42.4
Locatable Mineral Areas	6,000	20	150	2.7
Leasable Mineral Areas	0	0	0	0
Mineral Material Areas	3,000	100	30	4.9

Table R2.15-2
Estimated Acres of Mineral Resources in Conservation and Protect Areas by Subarea – No Action Alternative

Mineral Resources	Mineral Resources in Subarea (acres)	Existing Protected Areas (acres)	BLM Conservation Designations (acres)	Percent in Conservation
Pinto Lucerne Valley and Eastern Slopes				
Geothermal Resources	0	0	0	0
High Potential Mineral Areas	93,000	14,000	32,000	49.7
High Priority Mineral & Energy Locations	0	0	0	0
Rare Earth Element Areas	12,000	5,000	6,000	92.9
Locatable Mineral Areas	3,000	400	600	28.4
Leasable Mineral Areas	0	0	0	0
Mineral Material Areas	0	0	0	0
Piute Valley and Sacramento Mountains				
Geothermal Resources	0	0	0	0
High Potential Mineral Areas	38,000	23,000	9,000	85
High Priority Mineral & Energy Locations	0	0	0	0
Rare Earth Element Areas	0	0	0	0
Locatable Mineral Areas	7,000	1,000	27,000	40
Leasable Mineral Areas	0	0	0	0.00
Mineral Material Areas	43,000	20	13,000	30.6
Providence and Bullion Mountains				
Geothermal Resources	0	0	0	0
High Potential Mineral Areas	247,000	119,000	10,000	52.4
High Priority Mineral & Energy Locations	21,000	0	0	0
Rare Earth Element Areas	0	0	0	0
Locatable Mineral Areas	70,000	4,000	19,000	31.6
Leasable Mineral Areas	37,000	0	0	0
Mineral Material Areas	9,000	0	5,000	55.8

Table R2.15-2
Estimated Acres of Mineral Resources in Conservation and Protect Areas by Subarea – No Action Alternative

Mineral Resources	Mineral Resources in Subarea (acres)	Existing Protected Areas (acres)	BLM Conservation Designations (acres)	Percent in Conservation
West Mojave and Eastern Slopes				
Geothermal Resources	8,000	4,000	400	50.8
High Potential Mineral Areas	106,000	1,000	14,000	14.4
High Priority Mineral & Energy Locations	0	0	0	0
Rare Earth Element Areas	0	0	0	0
Locatable Mineral Areas	8,000	0	1,000	10.9
Leasable Mineral Areas	0	0	0	0
Mineral Material Areas	3,000	90	1,000	37.4
Total				
Geothermal Resources	347,000	20,000	12,000	9.1
High Potential Mineral Areas	1,519,000	649,000	135,000	51.6
High Priority Mineral & Energy Locations	101,000	100	0	0.1
Rare Earth Element Areas	59,000	24,000	9,000	56.8
Locatable Mineral Areas	348,000	11,000	95,000	30.4
Leasable Mineral Areas	84,000	0	0	0.01
Mineral Material Areas	101,000	1,000	23,000	23.4

R2.15.2 Preferred Alternative

Table R2.15-3
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Preferred Alternative

Subarea	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	300	100	0	100
High Priority Mineral & Energy Locations	3,000	0	0	0	0
Rare Earth Element Areas	1,000	0	0	0	0
Locatable Mineral Areas	41,000	400	50	0	100
Leasable Mineral Areas	13,000	0	0	0	0
Mineral Material Areas	6,000	400	100	0	100
Imperial and Borrego Valley					
Geothermal Resources	300,000	14,000	100	5,000	3,000
High Potential Mineral Areas	186,000	300	0	200	500
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	0
Leasable Mineral Areas	0	200	0	200	0
Mineral Material Areas	26,000	0	0	0	300
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	111,000	0	0	0	0
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0

Table R2.15-3
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Preferred Alternative

Subarea	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Locatable Mineral Areas	53,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	0	0	0	0
Mojave and Silurian Valley					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	106,000	0	0	0	100
High Priority Mineral & Energy Locations	100	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	10,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	0	0	0
Owens River Valley					
Geothermal Resources	15,000	400	0	1,000	30
High Potential Mineral Areas	400	30	0	50	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	30	0
Mineral Material Areas	2,000	20	0	0	0
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	306,000	0	0	0	0
High Priority Mineral & Energy Locations	58,000	0	0	0	0

Table R2.15-3
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Preferred Alternative

Subarea	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	6,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	89,000	30	30	0	100
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	20,000	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	37,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	36,000	0	0	0	0
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	153,000	0	0	0	50

Table R2.15-3
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Preferred Alternative

Subarea	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
High Priority Mineral & Energy Locations	19,000	0	0	0	30
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	20
Leasable Mineral Areas	37,000	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	105,000	1,000	50	100	0
High Priority Mineral & Energy Locations	0	0	0	0	100
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	200	20	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	20	0	0	0
Total					
Geothermal Resources	330,000	14,000	100	6,000	3,000
High Potential Mineral Areas	1,209,000	2,000	100	200	1,000
High Priority Mineral & Energy Locations	100,000	0	0	0	30
Rare Earth Element Areas	59,000	0	0	0	0
Locatable Mineral Areas	280,000	1,000	100	0	100
Leasable Mineral Areas	50,000	0	0	0	0
Mineral Material Areas	89,000	1,000	100	200	400

Table R2.15-4
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Preferred Alternative

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	49,000	47,000	1,000	86.8
High Priority Mineral & Energy Locations	3,000	0	0	100	9
Rare Earth Element Areas	1,000	1,000	200	0	95
Locatable Mineral Areas	41,000	6,000	25,000	300	72
Leasable Mineral Areas	13,000	0	6,000	90	90.4
Mineral Material Areas	6,000	0	1,000	200	11
Subtotal	*196,000*	*50,000*	*78,000*	*3,000*	*83*
Imperial and Borrego Valley					
Geothermal Resources	300,000	6,000	5,000	100	5.7
High Potential Mineral Areas	186,000	9,000	83,000	1,000	51.9
High Priority Mineral & Energy Locations	9,000	0	20	1,000	8.91
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	200	40,000	1,000	78.8
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	300	8,000	30	34.3
Subtotal	*239,000*	*16,000*	*137,000*	*3,000*	*28*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0

Table R2.15-4
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Preferred Alternative

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
High Potential Mineral Areas	111,000	64,000	24,000	1,000	86.2
High Priority Mineral & Energy Locations	10,000	100	0	0	1.03
Rare Earth Element Areas	43,000	17,000	13,000	200	72.7
Locatable Mineral Areas	65,000	4,000	44,000	40	80
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	5,000	0	53.2
Subtotal	*239,000*	*86,000*	*85,000*	*2,000*	*78*
Mojave and Silurian Valley					
Geothermal Resources	8,000	5,000	2,700	0	95
High Potential Mineral Areas	106,000	32,000	40,000	2,000	76
High Priority Mineral & Energy Locations	50	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	10,000	100	5,000	500	58.6
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	100	0	25
Subtotal	*124,000*	*37,000*	*48,000*	*2,000*	*76*
Owens River Valley					
Geothermal Resources	15,000	300	1,000	0	6.5
High Potential Mineral Areas	400	0	0	0	0.3
High Priority Mineral & Energy Locations	0	0	0	0	0

Table R2.15-4
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Preferred Alternative

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	100	300	40	27.4
Subtotal	*20,000*	*500*	*1,000*	*1,000*	*8*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	306,000	243,000	15,000	1,000	85.3
High Priority Mineral & Energy Locations	58,000	0	10,000	300	19.3
Rare Earth Element Areas	2,000	1,000	1,000	0	94.8
Locatable Mineral Areas	6,000	20	4,000	0	64.9
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	1,000	0	48.7
Subtotal	*375,000*	*244,000*	*32,000*	*1,000*	*75*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	89,000	10,000	45,000	30	67.1
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	5,000	6,000	0	95
Locatable Mineral Areas	300	400	1,000	0	37

Table R2.15-4
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Preferred Alternative

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*104,000*	*16,000*	*51,000*	*30*	*69*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	20,000	13,000	4,000	40	94.5
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	37,000	1,000	18,000	1,000	75.5
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	36,000	20	12,000	100	38
Subtotal	*265,000*	*15,000*	*34,000*	*3,000*	*70*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	153,000	46,000	30,000	2,000	71
High Priority Mineral & Energy Locations	19,000	0	0	1,000	15
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	3,000	36,000	200	85.3
Leasable Mineral Areas	37,000	0	0	1,000	5
Mineral Material Areas	3,000	0	3,000	0	95

Table R2.15-4
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Preferred Alternative

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Subtotal	*265,000*	*50,000*	*69,000*	*3,000*	*65*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	4,000	1,000	0	57.2
High Potential Mineral Areas	105,000	1,000	25,000	4,000	35
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	0	1,000	100	20.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	2,000	100	61.2
Subtotal	*125,000*	*5,000*	*29,000*	*4,000*	*36*
Total					
Geothermal Resources	331,000	15,000	9,000	100	7.4
High Potential Mineral Areas	1,209,000	469,000	312,000	12,000	65.5
High Priority Mineral & Energy Locations	100,000	100	10,000	2,000	12.4
Rare Earth Element Areas	59,000	24,000	20,000	200	75.7
Locatable Mineral Areas	280,000	11,000	175,000	3,000	67.1
Leasable Mineral Areas	50,000	0	6,000	1,000	13.9
Mineral Material Areas	89,000	700	32,000	400	37.2
Grand Total	**2,117,000**	**519,000**	**563,000**	**18,000**	**52**

R2.15.3 Alternative 1

Table R2.15-5
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 1

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	400	0	0	100
High Priority Mineral & Energy Locations	3,000	0	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	100
Leasable Mineral Areas	47,000	0	0	0	0
Mineral Material Areas	6,000	0	0	0	100
Subtotal	*351,000*	*400*	*0*	*0*	*300*
Imperial Borrego Valley					
Geothermal Resources	316,000	27,000	0	10,000	4,000
High Potential Mineral Areas	195,000	400	0	100	1,000
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	100	0	40	300
Subtotal	*598,000*	*28,000*	*0*	*10,000*	*5,000*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	0	0	0	0

Table R2.15-5
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 1

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
High Priority Mineral & Energy Locations	10,000	0	0	0	0
Rare Earth Element Areas	43,000	0	0	0	0
Locatable Mineral Areas	69,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*264,000*	*0*	*0*	*0*	*0*
Mojave and Silurian Valley					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	159,000	20	0	0	100
High Priority Mineral & Energy Locations	100	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	0	0	0
Subtotal	*178,000*	*20*	*0*	*0*	*100*
Owens River Valley					
Geothermal Resources	15,000	3,000	0	0	100
High Potential Mineral Areas	400	200	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	100	0	0	20

Table R2.15-5
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 1

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*20,000*	*3,000*	*0*	*0*	*200*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	0	0	0	0
High Priority Mineral & Energy Locations	58,000	0	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	6,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0
Subtotal	*379,000*	*0*	*0*	*0*	*0*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	100	0	0	100
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	0	0	0	0
Locatable Mineral Areas	3,000	30	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*100*	*0*	*0*	*100*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0

Table R2.15-5
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 1

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	0	0	0	0
Subtotal	*152,000*	*0*	*0*	*0*	*0*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	0	0	0	100
High Priority Mineral & Energy Locations	21,000	0	0	0	100
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	0	0	0	30
Leasable Mineral Areas	37,000	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*384,000*	*0*	*0*	*0*	*200*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	106,000	2,000	0	0	100
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	400	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	20	0	0	0

Table R2.15-5
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 1

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*126,000*	*2,000*	*20*	*0*	*100*
Total					
Geothermal Resources	347,000	30,000	0	10,000	5,000
High Potential Mineral Areas	1,519,000	3,000	30	100	1,000
High Priority Mineral & Energy Locations	101,000	0	0	0	100
Rare Earth Element Areas	59,000	0	0	0	0
Locatable Mineral Areas	348,000	1,000	0	0	100
Leasable Mineral Areas	84,000	0	0	0	0
Mineral Material Areas	101,000	200	0	40	400
Grand Total	**2,561,000**	**34,000**	**40**	**10,000**	**6,000**

Table R2.15-6
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 1

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	96,000	100,000	1,000	87.2
High Priority Mineral & Energy Locations	3,000	0	0	100	9
Rare Earth Element Areas	2,000	1,000	1,000	0	95
Locatable Mineral Areas	53,000	1,000	37,000	400	73.1
Leasable Mineral Areas	47,000	0	37,000	100	90.4
Mineral Material Areas	6,000	0	1,000	300	22.7
Subtotal	*351,000*	*98,000*	*174,000*	*4,000*	*84*
Imperial Borrego Valley					
Geothermal Resources	316,000	11,000	4,000	300	5.2
High Potential Mineral Areas	195,000	13,000	50,000	2,000	34.8
High Priority Mineral & Energy Locations	9,000	0	0	1,000	8.7
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	200	37,000	1,000	72.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	300	7,000	30	30.2
Subtotal	*598,000*	*24,000*	*98,000*	*4,000*	*22*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	67,000	41,000	1,000	86.6
High Priority Mineral & Energy Locations	10,000	100	0	0	1

Table R2.15-6
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 1

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Rare Earth Element Areas	43,000	17,000	13,000	200	72.7
Locatable Mineral Areas	69,000	5,000	47,000	40	80
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	5,000	0	53.2
Subtotal	*264,000*	*89,000*	*105,000*	*1,000*	*78*
Mojave and Silurian Valley					
Geothermal Resources	8,000	5,000	2,000	0	89.3
High Potential Mineral Areas	159,000	73,000	41,000	2,000	76.7
High Priority Mineral & Energy Locations	100	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	100	6,000	1,000	58.6
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	100	0	24.8
Subtotal	*178,000*	*77,000*	*49,000*	*3,000*	*76*
Owens River Valley					
Geothermal Resources	15,000	300	1,000	0	6.2
High Potential Mineral Areas	400	0	0	0	0.3
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	100	300	40	27.1

Table R2.15-6
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 1

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Subtotal	*20,000*	*500*	*1,000*	*50*	*7*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	247,000	14,000	1,000	85
High Priority Mineral & Energy Locations	58,000	0	10,000	400	19.3
Rare Earth Element Areas	2,000	1,000	1,000	0	94.8
Locatable Mineral Areas	6,000	20	4,000	0	64.9
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	1,000	0	42.1
Subtotal	*379,000*	*248,000*	*30,000*	*1,000*	*74*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	14,000	43,000	30	66.9
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	5,000	6,000	0	95
Locatable Mineral Areas	3,000	400	1,000	0	28
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*20,000*	*50,000*	*30*	*69*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	23,000	10,000	40	94.4

Table R2.15-6
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 1

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,000	1,000	40,000	1,000	67.8
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	20	13,000	100	31.6
Subtotal	*152,000*	*25,000*	*63,000*	*3,000*	*64*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	119,000	65,000	2,000	80.3
High Priority Mineral & Energy Locations	21,000	0	1,000	1,000	15
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	4,000	50,000	200	84.8
Leasable Mineral Areas	37,000	0	11,000	1,000	36
Mineral Material Areas	9,000	0	8,000	0	95
Subtotal	*384,000*	*123,000*	*135,000*	*4,000*	*74*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	4,000	800	0	57.2
High Potential Mineral Areas	106,000	1,000	24,000	5,000	36.1
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	0	1,000	100	20.3
Leasable Mineral Areas	0	0	0	0	0

Table R2.15-6
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 1

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Mineral Material Areas	3,000	100	2,000	100	61.2
Subtotal	*126,000*	*5,000*	*28,000*	*5,000*	*37*
Total					
Geothermal Resources	347,000	20,000	8,000	300	8
High Potential Mineral Areas	1,519,000	653,000	388,000	13,000	69.4
High Priority Mineral & Energy Locations	101,000	100	12,000	2,000	13.6
Rare Earth Element Areas	59,000	24,000	20,000	200	76
Locatable Mineral Areas	348,000	11,000	222,000	3,000	68
Leasable Mineral Areas	84,000	0	48,000	1,000	57.2
Mineral Material Areas	101,000	1,000	37,000	1,000	37.4
Grand Total	**2,561,000**	**709,000**	**734,000**	**20,000**	**57**

R2.15.4 Alternative 2

Table R2.15-7
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 2

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	200	100	0	100
High Priority Mineral & Energy Locations	3,000	0	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	53,000	300	100	0	100
Leasable Mineral Areas	47,000	0	0	0	0
Mineral Material Areas	6,000	300	100	0	100
Subtotal	*351,000*	*1,000*	*300*	*0*	*300*
Imperial Borrego Valley					
Geothermal Resources	316,000	11,000	100	6,000	4,000
High Potential Mineral Areas	195,000	2,000	1,000	200	1,000
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	1,500	1,000	0	200
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	200	0	200	300
Subtotal	*598,000*	*14,000*	*2,000*	*7,000*	*5,000*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	30	0	0	30

Table R2.15-7
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 2

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
High Priority Mineral & Energy Locations	10,000	0	0	0	30
Rare Earth Element Areas	43,000	0	0	0	100
Locatable Mineral Areas	69,000	0	0	0	200
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*264,000*	*30*	*0*	*0*	*300*
Mojave and Silurian Valley					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	159,000	0	0	0	100
High Priority Mineral & Energy Locations	100	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	0	0	0
Subtotal	*178,000*	*0*	*0*	*0*	*100*
Owens River Valley					
Geothermal Resources	15,000	300	0	1,000	100
High Potential Mineral Areas	400	20	0	100	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	0	0	30	0

Table R2.15-7
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 2

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*20,000*	*300*	*0*	*1,000*	*100*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	500	100	0	0
High Priority Mineral & Energy Locations	58,000	1,000	100	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	6,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0
Subtotal	*379,000*	*2,000*	*200*	*0*	*0*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	40	0	0	200
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*40*	*0*	*0*	*200*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0

Table R2.15-7
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 2

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	0	0	0	0
Subtotal	*152,000*	*0*	*0*	*0*	*0*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	200	100	0	100
High Priority Mineral & Energy Locations	21,000	0	0	0	40
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	1,000	300	0	200
Leasable Mineral Areas	37,000	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*384,000*	*1,000*	*500*	*0*	*300*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	106,000	1,000	100	0	30
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	200	20	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	0	0	0

Table R2.15-7
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 2

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*126,000*	*1,000*	*100*	*0*	*30*
Total					
Geothermal Resources	347,000	11,000	200	7,000	4,000
High Potential Mineral Areas	1,519,000	4,000	1,000	200	1,000
High Priority Mineral & Energy Locations	101,000	1,000	100	0	100
Rare Earth Element Areas	59,000	0	0	0	90
Locatable Mineral Areas	348,000	3,000	1,000	0	1,000
Leasable Mineral Areas	84,000	0	0	0	0
Mineral Material Areas	101,000	1,000	100	200	400
Grand Total	**2,561,000**	**19,000**	**2,000**	**7,000**	**7,000**

Table R2.15-8
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 2

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	96,000	105,000	1,000	89.7
High Priority Mineral & Energy Locations	3,000	0	1,000	100	56.5
Rare Earth Element Areas	2,000	1,000	1,000	0	95
Locatable Mineral Areas	53,000	1,000	38,000	300	75
Leasable Mineral Areas	47,000	0	38,000	100	92.9
Mineral Material Areas	6,000	0	1,000	200	13
Subtotal	*351,000*	*98,000*	*184,000*	*3,000*	*86*
Imperial Borrego Valley					
Geothermal Resources	316,000	11,000	6,000	100	5.9
High Potential Mineral Areas	195,000	13,000	49,000	1,000	33.6
High Priority Mineral & Energy Locations	9,000	0	100	1,000	9.4
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	200	22,000	1,000	44.4
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	300	14,000	20	58.8
Subtotal	*598,000*	*24,000*	*92,000*	*3,000*	*21*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	67,000	49,000	2,000	91.9
High Priority Mineral & Energy Locations	10,000	100	8,000	0	73.8

Table R2.15-8
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 2

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Rare Earth Element Areas	43,000	17,000	20,000	1,000	88.6
Locatable Mineral Areas	69,000	5,000	56,000	100	90.6
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	9,000	0	95
Subtotal	*264,000*	*89,000*	*141,000*	*2,000*	*90*
Mojave and Silurian Valley					
Geothermal Resources	8,000	5,000	2,000	0	89.3
High Potential Mineral Areas	159,000	73,000	51,000	2,000	82.7
High Priority Mineral & Energy Locations	100	0	100	0	95
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	100	8,000	1,000	85.7
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	100	100	55.3
Subtotal	*178,000*	*77,000*	*61,000*	*3,000*	*83*
Owens River Valley					
Geothermal Resources	15,000	300	1,000	0	7.0
High Potential Mineral Areas	400	0	0	0	0.6
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	100	300	40	27.8

Table R2.15-8
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 2

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Subtotal	*20,000*	*500*	*1,000*	*50*	*8*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	247,000	16,000	500	85.5
High Priority Mineral & Energy Locations	58,000	0	9,000	200	16.3
Rare Earth Element Areas	2,000	1,000	1,000	0	95
Locatable Mineral Areas	6,000	20	4,000	0	64.9
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	1,000	0	48.6
Subtotal	*379,000*	*248,000*	*31,000*	*1,000*	*74*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	14,000	41,000	2,000	63.4
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	5,000	6,000	0	95
Locatable Mineral Areas	3,000	400	1,000	0	39.4
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*20,000*	*48,000*	*2,000*	*66*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	23,000	10,000	100	94.4

Table R2.15-8
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 2

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	1,000	52,000	1,000	84.2
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	20	35,000	100	83.5
Subtotal	*152,000*	*25,000*	*98,000*	*4,000*	*87*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	119,000	892,000	2,000	87.2
High Priority Mineral & Energy Locations	21,000	0	14,000	1,000	83.70
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	4,000	36,000	500	59.7
Leasable Mineral Areas	37,000	0	28,000	1,000	88.6
Mineral Material Areas	9,000	0	8,000	0	95
Subtotal	*384,000*	*123,000*	*168,000*	*4,000*	*82*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	4,000	1,000	0	57.2
High Potential Mineral Areas	106,000	1,000	25,000	4,000	34.3
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	0	2,000	100	24.6
Leasable Mineral Areas	0	0	0	0	0

Table R2.15-8
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 2

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Mineral Material Areas	3,000	100	2,000	20	66.5
Subtotal	*126,000*	*5,000*	*29,000*	*4,000*	*36*
Total					
Geothermal Resources	347,000	20,000	10,000	100	8.5
High Potential Mineral Areas	1,519,000	653,000	428,000	16,000	72.3
High Priority Mineral & Energy Locations	100,000	100	32,000	2,000	33.4
Rare Earth Element Areas	59,000	24,000	28,000	400	89
Locatable Mineral Areas	348,000	11,000	218,000	4,000	67.1
Leasable Mineral Areas	84,000	0	66,000	1,000	79.7
Mineral Material Areas	101,000	1,000	70,000	400	70
Grand Total	**2,561,000**	**709,000**	**853,000**	**23,000**	**62**

R2.15.5 Alternative 3

Table R2.15-9
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 3

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	300	0	0	100
High Priority Mineral & Energy Locations	3,000	0	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	53,000	300	0	0	100
Leasable Mineral Areas	47,000	0	0	0	0
Mineral Material Areas	6,000	500	20	0	100
Subtotal	*351,000*	*1,000*	*40*	*0*	*300*
Imperial Borrego Valley					
Geothermal Resources	316,000	25,000	100	9,000	4,000
High Potential Mineral Areas	195,000	1,000	0	200	500
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	400	0	200	300
Subtotal	*598,000*	*26,000*	*100*	*10,000*	*5,000*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	0	0	0	0

Table R2.15-9
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 3

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
High Priority Mineral & Energy Locations	10,000	0	0	0	0
Rare Earth Element Areas	43,000	0	0	0	0
Locatable Mineral Areas	69,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*264,000*	*0*	*0*	*0*	*0*
Mojave and Silurian Valley					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	159,000	0	0	0	100
High Priority Mineral & Energy Locations	50	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	0	0	0
Subtotal	*178,000*	*0*	*0*	*0*	*100*
Owens River Valley					
Geothermal Resources	15,000	1,000	0	1,000	100
High Potential Mineral Areas	400	100	0	100	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	40	0	30	0

Table R2.15-9
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 3

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*20,000*	*1,000*	*0*	*1,000*	*0*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	1,000	0	0	0
High Priority Mineral & Energy Locations	58,000	1,000	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	6,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0
Subtotal	*379,000*	*3,000*	*0*	*0*	*0*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	100	0	0	100
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*100*	*0*	*0*	*100*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0

Table R2.15-9
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 3

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	0	0	0	0
Subtotal	*153,000*	*0*	*0*	*0*	*0*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	0	0	0	100
High Priority Mineral & Energy Locations	21,000	0	0	0	100
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	0	0	0	30
Leasable Mineral Areas	37,000	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*384,000*	*0*	*0*	*0*	*200*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	106,000	1,000	100	0	100
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	300	0	0	20
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0

Table R2.15-9
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 3

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*126,000*	*2,000*	*100*	*0*	*100*
Total					
Geothermal Resources	347,000	26,000	50	10,000	4,000
High Potential Mineral Areas	1,519,000	4,000	100	300	1,000
High Priority Mineral & Energy Locations	101,000	2,000	0	0	100
Rare Earth Element Areas	59,000	0	0	0	0
Locatable Mineral Areas	348,000	1,000	30	0	100
Leasable Mineral Areas	84,000	0	0	0	0
Mineral Material Areas	101,000	1,000	20	300	400
Grand Total	**2,561,000**	**34,000**	**200**	**11,000**	**5,000**

Table R2.15-10
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 3

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	96,000	98,000	1,000	87.2
High Priority Mineral & Energy Locations	3,000	0	0	100	9
Rare Earth Element Areas	2,000	1,000	1,000	0	95
Locatable Mineral Areas	53,000	1,000	36,000	300	72.5
Leasable Mineral Areas	47,000	0	37,000	100	90.4
Mineral Material Areas	6,000	0	1,000	200	17.5
Subtotal	*350351,000*	*98,000*	*173,000*	*2,000*	*84*
Imperial Borrego Valley					
Geothermal Resources	316,000	11,000	7,000	100	6
High Potential Mineral Areas	195,000	13,000	83,000	1,000	51.9
High Priority Mineral & Energy Locations	9,000	0	20	1,000	8.91
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	200	40,000	1,000	78.8
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	300	8,000	30	35.3
Subtotal	*598,000*	*24,000*	*140,000*	*3,000*	*29*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	67,000	41,000	1,000	86. 6
High Priority Mineral & Energy Locations	10,000	100	0	0	1

Table R2.15-10
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 3

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Rare Earth Element Areas	43,000	17,000	13,000	200	72.7
Locatable Mineral Areas	69,000	5,000	47,000	40	80
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	5,000	0	53.2
Subtotal	*264,000*	*89,000*	*105,000*	*2,000*	*78*
Mojave and Silurian Valley					
Geothermal Resources	8,000	5,000	2,000	0	89.3
High Potential Mineral Areas	159,000	73,000	41,000	2,000	76.1
High Priority Mineral & Energy Locations	100	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	100	6,000	500	58.6
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	100	0	24.8
Subtotal	*178,000*	*77,000*	*49,000*	*2,000*	*75*
Owens River Valley					
Geothermal Resources	15,000	300	1,000	0	6.5
High Potential Mineral Areas	400	0	0	0	0.3
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	300	40	27.4

Table R2.15-10
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 3

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Subtotal	*20,000*	*500*	*900*	*40*	*8*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	247,000	15,000	500	85.2
High Priority Mineral & Energy Locations	58,000	0	10,000	200	18.5
Rare Earth Element Areas	2,000	1,000	1,000	0	94.8
Locatable Mineral Areas	6,000	20	4,000	0	64.9
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	1,000	0	48.7
Subtotal	*379,000*	*248,000*	*32,000*	*1,000*	*74*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	14,000	44,000	30	66.9
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	5,000	6,000	0	95
Locatable Mineral Areas	3,000	400	1,000	0	29
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*20,000*	*51,000*	*30*	*69*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	23,000	10,000	40	94.4

Table R2.15-10
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 3

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,3000	1,000	41,000	1,000	68.6
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	20	13,000	100	31.6
Subtotal	*152,000*	*25,000*	*64,000*	*1,000*	*64*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	119,000	67,000	2,000	81.2
High Priority Mineral & Energy Locations	21,000	0	2,000	1,000	21.9
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	4,000	50,000	200	85.2
Leasable Mineral Areas	37,000	0	11,000	1,000	37.9
Mineral Material Areas	9,000	0	8,000	0	95
Subtotal	*384,000*	*123,000*	*138,000*	*4,000*	*75*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	4,000	1,000	0	57.2
High Potential Mineral Areas	106,000	1,000	25,000	5,000	35.9
High Priority Mineral & Energy Locations	0	0	0	0	0.00
Rare Earth Element Areas	0	0	0	0	0.00
Locatable Mineral Areas	8,000	0	1,000	100	20.3
Leasable Mineral Areas	0	0	0	0	0

Table R2.15-10
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 3

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Mineral Material Areas	3,000	100	2,000	20	61.2
Subtotal	*126,000*	*5,000*	*29,000*	*5,000*	*37*
Total					
Geothermal Resources	347,000	20,000	10,000	100	8.7
High Potential Mineral Areas	1,519,000	653,000	424,000	12,000	71.7
High Priority Mineral & Energy Locations	101,000	100	12,000	2,000	14.2
Rare Earth Element Areas	59,000	24,000	20,000	200	75.9
Locatable Mineral Areas	348,000	11,000	225,000	3,000	68.9
Leasable Mineral Areas	84,000	0	48,000	1,000	57.6
Mineral Material Areas	101,000	1,000	38,000	400	38.7
Grand Total	**2,561,000**	**709,000**	**778,000**	**19,000**	**59**

R2.15.5 Alternative 4

Table R2.15-11
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 4

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	500	40	0	100
High Priority Mineral & Energy Locations	3,000	0	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	53,000	1,000	50	0	200
Leasable Mineral Areas	47,000	0	0	0	0
Mineral Material Areas	6,000	1,000	50	0	200
Subtotal	*351,000*	*2,000*	*100*	*0*	*500*
Imperial and Borrego Valley					
Geothermal Resources	316,000	18,000	100	9,000	2,000
High Potential Mineral Areas	195,000	300	0	100	200
High Priority Mineral & Energy Locations	9,000	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	30	0	40	100
Subtotal	*598,000*	*18,000*	*100*	*9,000*	*2,000*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	0	0	0	0

Table R2.15-11
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 4

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
High Priority Mineral & Energy Locations	10,000	0	0	0	0
Rare Earth Element Areas	43,000	0	0	0	0
Locatable Mineral Areas	69,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*264,000*	*0*	*0*	*0*	*0*
Mojave and Silurian Valley					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	159,000	0	0	0	100
High Priority Mineral & Energy Locations	50	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	0	0	0
Subtotal	*178,000*	*0*	*0*	*0*	*100*
Owens River Valley					
Geothermal Resources	15,000	1,000	0	1,000	100
High Potential Mineral Areas	400	50	0	100	0
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	30	0	40	0

Table R2.15-11
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 4

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*20,000*	*1,000*	*0*	*900*	*100*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	0	0	0	0
High Priority Mineral & Energy Locations	58,000	300	0	0	0
Rare Earth Element Areas	2,000	0	0	0	0
Locatable Mineral Areas	6,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	0	0	0	0
Subtotal	*379,000*	*300*	*0*	*0*	*0*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	100	30	0	50
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*100*	*30*	*0*	*50*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	0	0	0	0
High Priority Mineral & Energy Locations	0	0	0	0	0

Table R2.15-11
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 4

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	71,000	0	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	0	0	0	0
Subtotal	*152,000*	*0*	*0*	*0*	*0*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	0	0	0	50
High Priority Mineral & Energy Locations	21,000	0	0	0	30
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	0	0	0	0
Leasable Mineral Areas	37,000	0	0	0	0
Mineral Material Areas	9,000	0	0	0	0
Subtotal	*384,000*	*0*	*0*	*0*	*100*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	0	0	0	0
High Potential Mineral Areas	106,000	1,000	50	0	50
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	200	0	0	0
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	40	20	0	0

Table R2.15-11
Potential Acres of Mineral Resource Impacts by Technology Type and Subarea – Alternative 4

Subarea Mineral Resource Types	Mineral Resources by Subarea (acres)	Potential Mineral Resource Impacts by Technology Type (acres)			
		Solar	Wind	GT	Transmission
Subtotal	*126,000*	*1,400*	*100*	*0*	*100*
Total					
Geothermal Resources	347,000	19,000	100	10,000	2,000
High Potential Mineral Areas	1,519,000	2,000	100	200	1,000
High Priority Mineral & Energy Locations	101,000	300	0	0	30
Rare Earth Element Areas	59,000	0	0	0	0
Locatable Mineral Areas	348,000	800	100	0	200
Leasable Mineral Areas	84,000	0	0	0	0
Mineral Material Areas	101,000	700	50	80	300
Grand Total	**2,561,000**	**23,000**	**300**	**10,000**	**3,000**

Table R2.15-12
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 4

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	240,000	96,000	87,000	1,000	82
High Priority Mineral & Energy Locations	3,000	0	0	100	9
Rare Earth Element Areas	2,000	1,000	1,000	0	95
Locatable Mineral Areas	53,000	1,000	27,000	300	54
Leasable Mineral Areas	47,000	0	37,000	100	90.4
Mineral Material Areas	6,000	0	0	200	2.5
Subtotal	*351,000*	*98,000*	*151,000*	*2,000*	*77*
Imperial Borrego Valley					
Geothermal Resources	316,000	11,000	3,000	200	4.8
High Potential Mineral Areas	195,000	13,000	32,000	2,000	25.2
High Priority Mineral & Energy Locations	9,000	0	0	1,000	9
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	53,000	200	13,000	1,000	26.9
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	26,000	300	7,000	30	29
Subtotal	*598,000*	*24,000*	*55,000*	*5,000*	*15*
Kingston and Funeral Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	132,000	67,000	34,000	1,00	81.4
High Priority Mineral & Energy Locations	10,000	100	0	0	1

Table R2.15-12
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 4

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Rare Earth Element Areas	43,000	17,000	12,000	200	72.6
Locatable Mineral Areas	69,000	5,000	29,000	400	53.5
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	9,000	0	1,000	0	15.5
Subtotal	*264,000*	*89,000*	*77,000*	*1,000*	*67*
Mojave and Silurian Valley					
Geothermal Resources	8,000	5,000	2,000	0	89.3
High Potential Mineral Areas	159,000	73,000	41,000	2,000	76.4
High Priority Mineral & Energy Locations	50	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	11,000	100	6,000	500	57.4
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	200	0	100	0	24.8
Subtotal	*178,000*	*77,000*	*49,000*	*2,000*	*76*
Owens River Valley					
Geothermal Resources	15,000	300	1,000	0	6.2
High Potential Mineral Areas	400	0	0	0	0.3
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	3,000	0	0	0	0.3
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	2,000	100	300	40	26.2

Table R2.15-12
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 4

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Subtotal	*20,000*	*500*	*900*	*40*	*7*
Panamint Death Valley					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	310,000	247,000	15,000	1,000	85.3
High Priority Mineral & Energy Locations	58,000	0	10,000	400	19.1
Rare Earth Element Areas	2,000	1,000	1,000	0	94.8
Locatable Mineral Areas	6,000	20	4,000	0	64.9
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	3,000	100	1,000	0	48.7
Subtotal	*379,000*	*248,000*	*32,000*	*1,000*	*75*
Pinto Lucerne Valley and Eastern Slopes					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	93,000	14,000	43,000	30	65.3
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	12,000	5,000	6,000	0	95
Locatable Mineral Areas	3,000	400	1,000	0	28
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	0	0	0	0	0
Subtotal	*108,000*	*20,000*	*50,000*	*30*	*68*
Piute Valley and Sacramento Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	38,000	23,000	10,000	40	94.4

Table R2.15-12
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 4

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	1,000	38,000	1,000	65
Leasable Mineral Areas	0	0	0	0	0
Mineral Material Areas	43,000	20	13,000	100	31.6
Subtotal	*152,000*	*25,000*	*61,000*	*1,000*	*63*
Providence and Bullion Mountains					
Geothermal Resources	0	0	0	0	0
High Potential Mineral Areas	247,000	119,000	59,000	3,000	77.4
High Priority Mineral & Energy Locations	21,000	0	1,000	1,000	16.5
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	70,000	4,000	35,000	1,000	61.3
Leasable Mineral Areas	37,000	0	11,000	1,000	36.2
Mineral Material Areas	9,000	0	8,000	0	95
Subtotal	*384,000*	*123,000*	*114,000*	*5,000*	*67*
West Mojave and Eastern Slopes					
Geothermal Resources	8,000	4,000	900	0	57.2
High Potential Mineral Areas	106,000	1,000	25,000	4,000	34.8
High Priority Mineral & Energy Locations	0	0	0	0	0
Rare Earth Element Areas	0	0	0	0	0
Locatable Mineral Areas	8,000	0	1,000	100	20.3
Leasable Mineral Areas	0	0	0	0	0

Table R2.15-12
Estimated Acres of Mineral Resources within Reserve Design Lands by Subarea – Alternative 4

Subarea	Mineral Resources in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Percent in Conservation
Mineral Material Areas	3,000	100	2,000	20	61.2
Subtotal	*126,000*	*5,000*	*29,000*	*4,000*	*36*
Total					
Geothermal Resources	348,000	20,000	7,000	200	7.7
High Potential Mineral Areas	1,519,000	653,000	346,000	14,000	66.7
High Priority Mineral & Energy Locations	101,000	100	11,000	2,000	13.6
Rare Earth Element Areas	59,000	24,000	20,000	200	75.9
Locatable Mineral Areas	348,000	11,000	153,000	4,000	48.5
Leasable Mineral Areas	84,000	0	48,000	1,000	57.3
Mineral Material Areas	101,000	700	32,000	400	32.8
Grand Total	**2,561,000**	**709,000**	**618,000**	**22,000**	**53**