North Slope Model Dri	ill Rias												
		ised Modelir	ng Analysis for Mobile Exploration	Drilling and Well Testing	North Slop	e. Alaska. ARCO Alaska. Inc							
Maximum annual fuel co					1		-						
500000 gallons			<u> </u>										
Fuel source estimates													
			For engines prorate fuel use by										
			total horsepower above and at										
Engines Other fuel by	urning equ		or below 600hp per engines										
	3 1 1			Total hp - large engines									
			2055										
Percent of total fuel use	ed					Emission Factors from							
75% 25%			27%	48%		AP-42: 3.4-1, 3.3-2, 1.3-2							
						, , , , , , , , ,							
North Slope													
Large engines			Small engines			Other fuel burnin	g equipment						
240000 gallons/seas	son		135000			125000 gallor	<u> </u>						
32887.2 mmbtu			18499.05			1_2200 gamer							
	52.61952	tpy nox	81580.8105		40.79041	tpy nox 2500 lb nox	( 1.25	tpy nox	94.659925				
16443.6 lb so2		tpy so2	9249.525		4.624763			tpy so2	17.284063				
3288.72 lb PM-10		tpy PM-10	5734.7055			B tpy PM-10 135 lb PM		tpy PM-1					
27954.12 lb co	13.97706		17574.0975		8.787049	1,7	0.3125		23.076609				
	1.479924		6659.658		3.329829				4.809753				
	77.94266				60.3994		6.0675			PTE (4 mos drilling) for Por	table Drill R	igs North of 69 Degree	
	975.8422				756.2005		75.9651			for winter drilling (4 mos.)		18 AAC 50.410(g)((3)(A)(i)	
										<b>3</b> \ , ,			
									\$4,241.31	for entire year (12 mos.)		18 AAC 50.410(g)((3)(A)(ii)	
Not North Slope												19/11/1	
Maximum annual fuel co	onsumptio	n for a winte	r drilling season					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Maximum annual fuel co Based on Nabors 160 ri		n for a winte	r drilling season					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri		n for a winte	r drilling season					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
		n for a winte	r drilling season					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons		n for a winte	For engines prorate fuel use by					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons		n for a winte	_					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons	ig		For engines prorate fuel use by total horsepower above and at					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates	ig		For engines prorate fuel use by total horsepower above and at or below 600hp per engines	Total hp - large engines				Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates	ig		For engines prorate fuel use by total horsepower above and at or below 600hp per engines	Total hp - large engines				Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines Total hp - small engines					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel bi	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines Total hp - small engines					Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58	3800				Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58	3800				Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58	3800		Other fuel burning	g equipment	Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58	3800 86%		Other fuel burning 7015.5 gallor	<u> </u>	Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel by Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu	urning equ		For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines	3800 86%			<u> </u>	Rate is ba	ased on PTE m	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel by Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu	urning equ	ipment	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2	3800 86% small		7015.5 gallor	ns	Rate is be	15.325852	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel by Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox	urning equ	ipment tpy nox	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2 384.533586	3800 86% small lb nox	0.847897	7015.5 gallor tpy nox 2500 lb nox	1.25			ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2	ed  13.22796 2.066868	ipment tpy nox	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586 1695.793114	3800 86% small lb nox lb so2	0.847897 0.096133	7015.5 gallor tpy nox 2500 lb nox	1.25 2 4.4375	tpy nox	15.325852 6.6005014	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10	ed  13.22796 2.066868	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586 1695.793114 192.266793	3800 86% small lb nox lb so2 lb PM-10	0.847897 0.096133 0.059603 0.182653	7015.5 gallor Ttpy nox 2500 lb nox 8 tpy so2 8875 lb so2 tpy PM-10 135 lb PM 625 lb co	1.25 2 4.4375	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co	ed  13.22796 2.066868 0.413374	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603	7015.5 gallor Ttpy nox 2500 lb nox 8 tpy so2 8875 lb so2 tpy PM-10 135 lb PM 625 lb co	1.25 2 4.4375 1-10 0.0675 0.3125	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763	ultiplied by current/ propose	ed Title 1 (E	CPR) Emission Fee Rate (18 AAC	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	ed  13.22796 2.066868 0.413374 3.513676	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653	7015.5 gallor  tpy nox 2500 lb vo	1.25 2 4.4375 1-10 0.0675 0.3125	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523	PTE for Portable Drill Rigs			C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	ed  13.22796 2.066868 0.413374 3.513676 0.372036	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 -10 0.0675 0.3125 C 0	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911	PTE for Portable Drill Rigs	outside of I		C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911	PTE for Portable Drill Rigs	outside of I	North of 69 Degree	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911	PTE for Portable Drill Rigs per well rate for Portable Di	outside of I	North of 69 Degree side of North of 69 Degree	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911 \$ 263.52	PTE for Portable Drill Rigs per well rate for Portable Di	outside of I	North of 69 Degree side of North of 69 Degree 18 AAC 50.410(g)(3)(B)(i)	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911 \$ 263.52	PTE for Portable Drill Rigs per well rate for Portable Di per 5 wells	outside of I	North of 69 Degree side of North of 69 Degree	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911 \$ 263.52 \$1,317.58 \$2,635.17	PTE for Portable Drill Rigs per well rate for Portable Di per 5 wells per 10 wells	outside of I	North of 69 Degree side of North of 69 Degree  18 AAC 50.410(g)(3)(B)(i)  18 AAC 50.410(g)(3)(B)(ii)	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911 \$ 263.52 \$1,317.58	PTE for Portable Drill Rigs per well rate for Portable Di per 5 wells per 10 wells	outside of I	North of 69 Degree side of North of 69 Degree 18 AAC 50.410(g)(3)(B)(i)	C 50.410)
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911 \$ 263.52 \$1,317.58 \$2,635.17 \$3,952.75	PTE for Portable Drill Rigs per well rate for Portable Dr per 5 wells per 10 wells per 15 wells	outside of I	North of 69 Degree side of North of 69 Degree  18 AAC 50.410(g)(3)(B)(i)  18 AAC 50.410(g)(3)(B)(iii)  18 AAC 50.410(g)(3)(B)(iiii)	
Based on Nabors 160 ri 70155 gallons Fuel source estimates  Engines Other fuel be Percent of total fuel use 90% 10%  North Slope Large engines 60333.3 gallons/seas 8267.472 mmbtu 26455.91 lb nox 4133.736 lb so2 826.7472 lb PM-10 7027.351 lb co 744.0725 lb VOC	son  13.22796 2.066868 0.413374 3.513676 0.372036 19.59391	tpy nox tpy so2 tpy PM-10	For engines prorate fuel use by total horsepower above and at or below 600hp per engines  Total hp - small engines  183.58  4%  Small engines  2806.2  384.533586  1695.793114  192.266793  119.2054117  365.3069067	small   lb nox   lb so2   lb PM-10   lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	7015.5 gallor  7 tpy nox 2500 lb nox 8 tpy so2 8875 lb so2 15 tpy PM-10 135 lb PM 625 lb co 0 lb VO	1.25 2 4.4375 1-10 0.0675 0.3125 C 0 6.0675	tpy nox tpy so2 tpy PM-1	15.325852 6.6005014 0 0.5404763 4.0088291 0.4412523 26.916911 \$ 263.52 \$1,317.58 \$2,635.17 \$3,952.75	PTE for Portable Drill Rigs per well rate for Portable Dr per 5 wells per 10 wells per 15 wells	outside of I	North of 69 Degree side of North of 69 Degree  18 AAC 50.410(g)(3)(B)(i)  18 AAC 50.410(g)(3)(B)(ii)	