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S 4.35.14⁵PAH mass ratio = Mass (g) of PAH (as phenanthrene)/ Mass (g) of stock base fluid as determined by EPA Method 1654, Revision A, (specified at §435.11(u)) entitled "PAH Content of Oil by HPLC/UV," December 1992, which is pub-lished in *Methods for the Determination of Diesel, Mineral,* and Crude Oils in Offshore Oil and Gas Industry Discharges, EPA-821-R-92-008. This incorporation by reference was ap-proved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be ob-tained from the National Technical Information Service, Springfield, VA 22161, 703-605-6000. Copies may be in-spected at the Office of the Federal Register, 800 North Cap-tiol Street, NW., Suite 700, Washington, DC. A copy may also be inspected at EPA's Water Docket, 1200 Pennsylvania *Lev.*, NW. Washington, DC 2046.
[®] Base fluid sediment toxicity ratio = 10-day LC₃₀ of C₁₀-C₁₈ internal olefin/10-day LC₃₀ of stock base fluid as determined by ASTM E 1367-92 [specified at §435.11(ee)] method: "Standard Guide for Conducting 10-day Static Sediment Tox-ricity Tests with Marine and Estuarine Amphipods," 1992, after preparing the sediment according to the method specified in Appendix 3 of subpart A of this part. This incorporation by ref-erence was approved by the Director of the Federal Register in Agondare with 5 U.S.C. 552(a) and 1 CFR part 51. Cop-jes may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA, 19428. Copies may be inspected at the Office of the Fed-eral Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. A copy may also be inspected at EPA's Washington, DC. A copy may also be inspected at EPA's washington, DC. A copy may also be inspected at the Affice PA 19428. Copies may be inspected at the Diffice of the Fed-eral Register, 1200 Pennsylvania Ave., NW., Washington, DC. DC 20460.

¹DC 20460. ⁷Biodegradation rate ratio = Cumulative gas production (ml) of C1₁₀-C1₁₀ internal olefin/Cumulative gas production (ml) of stock base fluid, both at 275 days as determined by ISO 11734:1995 [specified at §435.11(e)] method: "Water quality—Evaluation of the 'ultimate' anaerobic biodegradability of organic compounds in digested sludge—Method by measurement of the biogas production (1995 edition)" as modified for the marine environment (Appendix 4 of subpart A of this part). This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036. Copies may be inspected at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. A copy may also be inspected at EPA's Water Docket, 1200 Pennsylvania Ave., NW., Washington, DC 20460. ⁹ Drilling fluid sediment toxicity ratio = 4-day LC₅₀ of C₁₆-moved from drill cuttings at the solids control equipment as determined by ASTM E 1367-92 (specified at §435.11(ee)) method: "Standard Guide for Conducting 10-day Static Sediment Toxicity Tests with Marine and Estuarine Amphipods," 1992, after preparing the sediment according to the method specified in Appendix 3 of subpart A of this part. This incorporation by reference was approved by the Director of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. A copy may also be inspected at EPA's Water Docket, 1200 Pennsylvania Ave., NW. Washington, DC Acouncing 10-day Static Sediment Toxicity Tests with Marine and Estuarine Amphipods," 1992, after preparing the sediment according to the method specified in Appendix 3 of subpart A of this part. This incorporation by reference was approved by the Director of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. A copy may also be inspected at the Office of the Federal Register, 800 Biodegradation rate ratio = Cumulative gas production (ml

EPA's Water Docket, 1200 Pennsylvania Ave., NW, Wash-ington, DC 20460. ⁹As determined before drilling fluids are shipped offshore by the GC/MS compliance assurance method (Appendix 5 of subpart A of this part), and as determined prior to discharge by the RPE method (Appendix 6 of subpart A of this part) ap-plied to drilling fluid removed from drill cuttings. If the operator wishes to confirm the results of the RPE method (Appendix 6 of subpart A of this part), the operator may use the GC/MS compliance assurance method (Appendix 5 of subpart A of this part). Results from the GC/MS compliance assurance method (Appendix 5 of subpart A of this part) shall supercede the results of the RPE method (Appendix 6 of subpart A of this part). ¹⁰Maximum permissible retention of non-aqueous drilling

this part). ¹⁰ Maximum permissible retention of non-aqueous drilling fluid (NAF) base fluid on wet drill cuttings averaged over drilling intervals using NAFs as determined by the API retort method (Appendix 7 of subpart A of this part). This limitation is applicable for NAF base fluids that meet the base fluid sediment toxicity ratio (Footnote 6), biodegradation rate ratio (Contorte 7), PAH, mercury, and cadmium stock limitations (C_{1c}-C₁₈ internal olefin) defined above in this table.

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¹¹ Maximum permissible retention of non-aqueous drilling fluid (NAF) base fluid on wet drill cuttings average over drilling fluid (NAF) base fluid on wet drill cuttings average over drilling intervals using NAFs as determined by the API retort method (Appendix 7 of subpart A of this part). This limitation is applicable for NAF base fluid stat meet the ester base fluid sediment toxicity ratio and ester biodegradation rate ratio stock limitations defined as: (a) ester base fluid sediment toxicity ratio = 10-day LC₅₀ of C₁₂-C₁₄ ester or C₈ ester /10-day LC₅₀ of stock base fluid as determined by ASTM E 1367-92 (specified at § 435.11(e)) method: "Standard Guide for Conducting 10-day Static Sediment Toxicity Tests with Marine and Estuarine Amphipods," 1992, after preparing the sediment according to the method specified in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the American Society for Testing and Materials. 100 Bart Habro Drive, West Conshohocken, PA, 19428. Copies may be inspected at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. Ac opy may also be inspected at EPA's Water Docket, 1200 Pennsylvania Ave., NW, Washington, DC 20460. (b) ester biodegradation rate ratio = Cumulative gas production (mI) of stock base fluid both at 275 days as determined by ISO 1173/1995 (specified at § 435.11(e)) method: "Water quality—Evaluation of the 'ultimate' anaerobic biodegradability of organic compounds in digested sludg—Method by measurement of the biogas production (1995 edition)" as modified for the marine environment (Appendix 4 of subpart A of this part). This incorporation by reference was approved by the Director of the Federal Register, 800 North Capitol Street, NW, Suite 700, Washington, DC. Action and Chapendix 4 of subpart A of this part). This incorporation by reference was approved by the Director of the Federal Register, 800 North Capitol Street, 13th Floor, New York, NY 10036. Copies may be inspected at the Office o Maximum permissible retention of non-aqueous drilling

[58 FR 12504, Apr. 13, 1979, as amended at 66 FR 6898, Jan. 22, 2001]

§435.14 Effluent limitations guidelines representing the degree of effluent reduction attainable by the applica-tion of the best conventional pollutant control technology (BCT).

Except as provided in 40 CFR 125.30-32, any existing point source subject to this subpart must achieve the follimitations effluent lowing representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT):

BCT EFFLUENT LIMITATIONS

Waste source	Pollutant pa- rameter	BCT effluent limita- tion
Produced water	Oil & grease	The maximum for any one day shall not exceed 72 mg/l; the average of values for 30 consecutive days shall not exceed 48 mg/l.
Drilling fluids and drill cuttings: (A) For facilities lo- cated within 3 miles from shore.		No discharge. ¹

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BCT EFFLUENT LIMITATIONS—Continued

Waste source	Pollutant pa- rameter	BCT effluent limita- tion
(B) For facilities lo- cated beyond 3 miles from shore:. Water-based drill- ing fluids and associated drill cuttings.	Free Oil	No discharge. ²
Non-aqueous drill- ing fluids.		No discharge.
Drill cuttings as- sociated with non-aqueous drilling fluids.	Free Oil	No discharge. ²
Well treatment, com- pletion and work- over fluids.	Free oil	No discharge. ²
Deck drainage	Free oil	No discharge.3
Produced sand		No discharge.
Sanitary M10	Residual chlo- rine.	Minimum of 1 mg/l and maintained as close to this concentration as possible.
Sanitary M91M	Floating sol- ids.	No discharge.
Domestic Waste	Floating sol- ids.	No discharge.
	All other do- mestic waste.	See 33 CFR part 151.

¹ All Alaskan facilities are subject to the drilling fluids and drill cuttings discharge limitations for facilities located more than 3 miles offshore. ² As determined by the static sheen test (appendix 1). ³ As determined by the presence of a film or sheen upon or a discoloration of the surface of the receiving water (visual sheen).

 $\left[58\ {\rm FR}\ 12504,\ {\rm Apr.}\ 13,\ 1979,\ as\ amended\ at\ 66\right.$ FR 6899, Jan. 22, 2001]

§435.15 Standards of performance for new sources (NSPS).

Any new source subject to this subpart must achieve the following new source performance standards (NSPS):

NEW	SOURCE	PERFORMANCE	STANDARDS
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Waste source	Pollutant pa- rameter	NSPS
Produced water	Oil and grease.	The maximum for any one day shall not exceed 42 mg/ l; the average of daily values for 30 consecutive days shall not exceed 29 mg/l.
Drilling fluids and drill cuttings: (A) For facilities lo- cated within 3 miles from shore.		No discharge.1

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NEW SOURCE PERFORMANCE STANDARDS-Continued

Continued			
Waste source	Pollutant pa- rameter	NSPS	
(B) For facilities lo- cated beyond 3 miles from shore: Water-based drilling fluids and associated drill cuttings.	SPP Toxicity	Minimum 96-hour LC ₅₀ of the SPP Toxicity Test ² shall be 3% by volume.	
	Free oil	No discharge.3	
	Diesel oil	No discharge.	
	Mercury	1mg/kg dry weight maximum in the stock barite.	
	Cadmium	3 mg/kg dry weight maximum in the stock barite.	
Non-aqueous drilling fluids. Drill cuttings associ- ated with non- aqueous drilling fluids:		No charge.	
Stock Limitations (C ₁₆ -C ₁₈ inter- nal olefin.	Mercury	1mg/kg dry weight maximum in the stock barite.	
	Cadmium	3 mg/kg dry weight maximum in the stock barite.	
	Polynuclear Aromatic Hydro- carbons (PAH).	PAH mass ratio ⁵ shall not exceed 1×10 ⁻⁵ .	
	Sediment tox- icity.	Base fluid sediment toxicity ratio ⁶ shall not exceed 1.0.	
	Biodegradatio- n rate.	Biodegradation rate ratio ⁷ shall not ex- ceed 1.0.	
Discharge Limita- tions.	Diesel oil	No discharge.	
	SPP Toxicity	Minimum 96-hour LC_{50} of the SPP Toxicity Test ² shall be 3% by volume.	
	Sediment tox- icity.	Drilling fluid sedi- ment toxicity ratio ⁸ shall not exceed 1.0.	
	Formation Oil	No discharge.9	