



NSPS & NESHAPs

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NSPS

- New Source Performance Standards (40 CFR Part 60)
- Reflect emissions limitation applicable to a specific source category or new or modified stationary sources
- Very similar to BACT in that they achieve emissions control through a best control that takes into consideration cost, energy etc.



NSPS

- List of all the promulgated NSPS standards can be found at <http://www.tnrcc.state.tx.us/permitting/airp/erm/opd/60/60hmpg.htm>



Your New Source Performance Standards

- **Titles of 40 CFR Part 60 Subparts**

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Subpart C1-Emission Guidelines and Compliance Times

Subpart Ca-[Reserved]

Subpart Cb1-Emission Guidelines and Compliance Times for Municipal Waste Combustors That Are Constructed on or Before December 19, 1995

Subpart Cc1-Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills

Subpart Cd1-Emission Guidelines and Compliance Times for Sulfuric Acid Production Units

Subpart Ce1-Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators

Subpart D-Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971



There's more

- Subpart Da-Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978
- Subpart Db-Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
- Subpart Dc-Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
- Subpart E-Standards of Performance for Incinerators
- Subpart Ea2-Standards of Performance for Municipal Waste Combustors for Which Construction is Commenced After December 20, 1989 and on or Before September 20, 1994
- Subpart Eb2-Standards of Performance for Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994
- Subpart Ec-Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction Is Commenced After June 20, 1996
- Subpart F-Standards of Performance for Portland Cement Plants
- Subpart G-Standards of Performance for Nitric Acid Plants



Wait.... More

- Subpart H-Standards of Performance for Sulfuric Acid Plants
Subpart I-Standards of Performance for Hot Mix Asphalt Facilities
Subpart J-Standards of Performance for Petroleum Refineries
Subpart K-Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978
Subpart Ka-Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984
Subpart Kb-Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
Subpart L-Standards of Performance for Secondary Lead Smelters
Subpart M-Standards of Performance for Secondary Brass and Bronze Production Plants
Subpart N-Standards of Performance for Primary Emissions from Basic Oxygen Process Furnaces for Which Construction is Commenced After June 11, 1973
Subpart Na-Standards of Performance for Secondary Emissions From Basic Oxygen Process Steelmaking Facilities for Which Construction Is Commenced After January 20, 1983



And More!!!!!!!!!!!!!!!

- Subpart O-Standards of Performance for Sewage Treatment Plants
- Subpart P-Standards of Performance for Primary Copper Smelters
- Subpart Q-Standards of Performance for Primary Zinc Smelters
- Subpart R-Standards of Performance for Primary Lead Smelters
- Subpart S-Standards of Performance for Primary Aluminum Reduction Plants
- Subpart T-Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants
- Subpart U-Standards of Performance for the Phosphate Fertilizer Industry: Superphosphoric Acid Plants
- Subpart V-Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants
- Subpart W-Standards of Performance for the Phosphate Fertilizer Industry: Triple Superphosphate Plants
- Subpart X-Standards of Performance for the Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities
- Subpart Y-Standards of Performance for Coal Preparation Plants
- Subpart Z-Standards of Performance for Ferroalloy Production Facilities
- Subpart AA-Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and On or Before August 17, 1983



Yes.....There's more!!

- Subpart AAa-Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983
- Subpart BB-Standards of Performance for Kraft Pulp Mills
- Subpart CC-Standards of Performance for Glass Manufacturing Plants
- Subpart DD-Standards of Performance for Grain Elevators
- Subpart EE-Standards of Performance for Surface Coating of Metal Furniture
- Subpart FF**-[Reserved]
- Subpart GG-Standards of Performance for Stationary Gas Turbines
- Subpart HH-Standards of Performance for Lime Manufacturing Plants
- Subpart KK-Standards of Performance for Lead-Acid Battery Manufacturing Plants
- Subpart LL-Standards of Performance for Metallic Mineral Processing plants
- Subpart MM--Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations
- Subpart NN2-Standards of Performance for Phosphate Rock Plants



Not quite yet

- Subpart PP-Standards of Performance for Ammonium Sulfate Manufacture
Subpart QQ-Standards of Performance for the Graphic Arts Industry: Publication Rotogravure Printing
Subpart RR-Standards of Performance for Pressure Sensitive Tape and Label Surface Coating Operations
Subpart SS-Standards of Performance for Industrial Surface Coating: Large Appliances
Subpart TT-Standards of Performance for Metal Coil Surface Coating
Subpart UU-Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture
Subpart VV-Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
Subpart WW-Standards of Performance for the Beverage Can Surface Coating Industry
Subpart XX-Standards of Performance for Bulk Gasoline Terminals
Subpart AAA2-Standards of Performance for New Residential Wood Heaters
Subpart BBB2-Standards of Performance for the Rubber Tire Manufacturing Industry
Subpart CCC-[Reserved]
Subpart DDD-Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry



More!!!!!!!!!!!!!!!!!!!!!!

- **Subpart EEE**-[Reserved]
Subpart FFF-Standards of Performance for Flexible Vinyl and Urethane Coating and Printing
Subpart GGG-Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries
Subpart HHH-Standards of Performance for Synthetic Fiber Production Facilities
Subpart III-Standards of Performance for Volatile Organic Compound (VOC) Emissions From the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes
Subpart JJJ-Standards of Performance for Petroleum Dry Cleaners
Subpart KKK-Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants
Subpart LLL-Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions
Subpart MMM-[Reserved]
Subpart NNN-Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations
Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants
Subpart PPP-Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants
Subpart QQQ-Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems



That's it – All of them

- Subpart RRR-Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes
Subpart SSS2-Standards of Performance for Magnetic Tape Coating Facilities
Subpart TTT-Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines
Subpart UUU-Standards of Performance for Calciners and Dryers in Mineral Industries
Subpart VVV-Standards of Performance for Polymeric Coating of Supporting Substrates Facilities
Subpart WWW-Standards of Performance for Municipal Solid Waste Landfills
Subpart AAAA2-Standards of Performance for Small Municipal Waste Combustion Units for Which Commenced After August 30, 1999 or for Which Modifications or Reconstruction is Commenced After June 6, 2001
Subpart BBBB2-Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed On or Before August 30, 1999
Subpart CCCC2-Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction is Commenced After November 30, 1999 or for Which Modification or Reconstruction is Commenced After June 1, 2001
Subpart DDDD2-Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units that Commenced Construction On or Before November 30, 1999



NSPS – Does it apply

- Check to see if you can identify by source category
- Most Important – read the first section of the Source Category titled “Applicability & Designation of Affected Facility”
- Check with your local regulator for guidance for those cases not straight forward.



NSPS – Important things to not forget

- Subpart A-General Provisions
- Make time to read this part. Key areas to remember.
 1. 40 CFR 60.7 – Notification & Record Keeping
 2. 40 CFR 60.8 – Performance Tests
w/in 60 days of max production but no later than 180 Days. By the Way, they all have some type of performance test (See appendix of Part 60 & your Regulatory Agency).



NSPS – Important things to not forget- The fun continues

- Subpart A-General Provisions
3. 40 CFR 60.14 Modifications
“(a)....any physical or operational change to an existing facility which results in an increase in the emission rate (lb/hr) to which a standard applies shall be considered a modification with the meaning of Section 111 of the ACT.”



NSPS – Important things to not forget- Wait...There's more

- Subpart A-General Provisions
- 3. 40 CFR 60.15 Reconstruction
“(b) Reconstruction means the replacement of components of an existing facility to such an extent that:
1) the fixed capital costs of the new components exceed 50% of the fixed capital cost that would be required to construct a comparable entirely new facility.”

By the Way they use this in the NESHAPS/MACT



Quick Examples

- 20,000 gallon tank storing a VOC – Say Diesel / No. 2 / Solvent
- 10,000,000 Btu/hour Boiler (10,000 #/hr Steam output)
- Tire manufacturing
- Pressure Sensitive Tape & Labels – Coating Lines
- Printing



NESHAPS

- National Emission Standards for Hazardous Air Pollutants
- Found at 40 CFR Parts 61 & 63
- Part 61 is the old NESHAP Source categories - Pre 1990 CAAA
- Part 63 MACT Standards



MACT Source Categories

- EPA Web Site
TTN – Air Toxics web Site

<http://www.epa.gov/ttn/atw/mactfnlalph.html>



MACT Applicability

- Major Source of HAPs
- 10 tons per year or greater of any single HAP
- OR
- 25 tons per year or greater of an aggregate of HAPs at your site.



Lots of Reporting Requirements

- Read Source Category to determine specific requirements
- For Example: Notification of applicability – for newly issued MACTs – however, differs from MACt to MACT – Some are 120 as outlined in General provisions, while others are may be longer as written into the individual MACT.



MACT – General Provisions

- 40 CFR Part 63 Subpart A
 - 63.5 – Construction & Reconstruction
- 63.6 - Compliance with Standards and Maintenance Requirements
- 63.7 Performance Testing
- 63.8 Monitoring Requirements
- 63.9 Notification Requirements
- 63.10 Record Keeping & Reporting
- The list goes on.....



NSPS & NEHSAPS

- Don't forget to read the definitions

NSPS 40 CFR 60.2

NESHAP 40 CFR 61.02

MACT 40 CFR 63.2



Surprise for North Carolina Folks

- Compliance with NC Air Toxics required per 15A NCAC 2Q.0705(b)
“When the owner or operator submits a permit application to comply with the last MACT or GACT, excluding the MACT/GACT for combustion sources, known to apply to the facility, he(she) shall also submit a permit application to comply with 15A NCAC 2D .1100. The facility shall comply with 15A NCAC 2D.1100 by the same deadline that it is required to comply with the last MACT/GACT.”





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