

Appendix B

Lookup Tables

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Accuracy Spec Code

Accuracy Spec Cd	Accuracy Spec Cd Description	
ACT	Actual Accuracy of Each Component	
AGA3	Total Accuracy according to AGA Report No. 3	
SUM	Sum of Accuracies of All Components	

Accuracy Test Method Code

Acc Test Method Cd	Acc Test Method Cd Description	
AGA7	AGA Report No. 7, Measurement of Natural Gas by Turbine Meter	
API	American Petroleum Institute Method in Appendix D	
ASME	ASME Method in Appendix D	
ILMMF	In-Line Comparison against Master Meter at Facility	
ISO	International Organization for Standardization Method in Appendix D	
LCRM	Laboratory Comparison against Reference Meter	
NIST	NIST-Traceable Method Approved by Petition	

Acquisition Method Code

Acq Cd	Acq Cd Description	
ADSP	Hg Adsorption on Sorbent Medium	
COR	Coriolis	
DIL	Dilution	
DIN	Dilution In-Stack	
DOD	Dry Out-of-Stack Dilution	
DOU	Dilution Out-of-Stack	
DP	Differential Pressure	
EXT	Dry Extractive	
IS	In Situ	
ISC	Cross Stack In Situ	
ISP	Point/Path In Situ	
NOZ	Nozzle	
O	Other	
ORF	Orifice	
PDP	Positive Displacement	
T	Thermal Mass Flowmeter	
TUR	Turbine	
U	Ultrasonic	
VCON	V-Cone	
VEN	Venturi	
VTX	Vortex	
WXT	Wet Extractive	

Analyzer Range Code

Analyzer Range Cd	Analyzer Range Cd Description	
A	Auto Ranging	
H	High Range	
L	Low Range	

Aps Code

Aps Cd	Aps Description	
PS15	Performance Spec 15	
PS18	Performance Spec 18	

Bypass Approach Code

Bypass Approach Cd	Bypass Approach Cd Description	
BYMAX	Standard Part 75 for Unmonitored Bypass Stack	
BYMAXFS	Fuel-Specific for Unmonitored Bypass Stack	

Control Code

Control Cd	Ce Param	Control Cd Description
APAC	HG	Additives to Enhance PAC and Existing Equipment Performance
B	PART	Baghouse
C	PART	Cyclone
CAT	HG	A catalyst (gold, palladium, or other) used to oxidize mercury
CM	NOX	Combustion Modification/Fuel Reburning
DA	SO2	Dual Alkali
DLN	SO2	Dry Lime FGD
DLNB	NOX	Dry Low NOx Burners
DSI	HCL	Dry Sorbent Injection
DSI	HF	Dry Sorbent Injection
DSI	SO2	Dry Sorbent Injection
ESP	PART	Electrostatic Precipitator

Control Code

Control Cd	Ce Param	Control Cd Description
FBL	SO2	Fluidized Bed Limestone Injection
H2O	NOX	Water Injection
HESP	PART	Hybrid Electrostatic Precipitator
HPAC	HG	Halogenated PAC Sorbent Injection
LN B	NOX	Low NOx Burner Technology (Dry Bottom only)
LN B O	NOX	Low NOx Burner Technology w/ Overfire Air
LNC1	NOX	Low NOx Burner Technology w/ Closed-coupled OFA
LNC2	NOX	Low NOx Burner Technology w/ Separated OFA
LNC3	NOX	Low NOx Burner Technology w/ Closed-coupled/Separated OFA
LNC B	NOX	Low NOx Cell Burner
MO	SO2	Magnesium Oxide
NH3	NOX	Ammonia Injection
O	NOX	Other
O	PART	Other
O	SO2	Other
OFA	NOX	Overfire Air
REAC	HG	Regenerative Activated Coke Technology
S B	HCL	Sodium Based
S B	HF	Sodium Based
S B	HG	Sodium Based
S B	SO2	Sodium Based
SCR	NOX	Selective Catalytic Reduction
SNCR	NOX	Selective Non-catalytic Reduction
SORB	HG	Other (Non PAC) Sorbent Injection
STM	NOX	Steam Injection
UPAC	HG	Untreated PAC Sorbent Injection
WESP	PART	Wet Electrostatic Precipitator
WL	SO2	Wet Lime FGD

Control Code

Control Cd	Ce Param	Control Cd Description
WLS	SO2	Wet Limestone
WS	PART	Wet Scrubber

Default Purpose Code

Default Purpose Cd	Def Purpose Cd Description	
DC	Diluent Cap	
DM	Default Minimum Fuel Flow Rate	
F23	SO2 Default Emission Rate for Use in Equation F-23	
LM	Low Mass Emission Unit Default	
MD	Missing Data (or Unmonitored Bypass Stack or Emergency Fuel) Default	
PM	Primary Measurement Methodology	

Default Source Code

Default Source Cd	Default Source Cd Description	
APP	Approved from Petition	
CONT	Contract Maximum	
DATA	Historical or Other Relevant Data	
DEF	Default Value from Part 75	
MAXD	Maximum Value based on Design	
PERM	Specified by Operating Permit	
SAMP	Fuel Sampling	
TEST	Unit or Stack Testing	

Dem Method Code

Dem Method Cd	Dem Method Description	Dem Parameter
GGC	720 Hours of Data Using an On-line Gas Chromatograph	GCV
GHS	720 Hours of Data Using Hourly Sampling	GCV
GOC	720 Hours of Data Using an On-line Calorimeter	GCV
SGC	720 Hours of Data Using an On-line Gas Chromatograph	SULFUR
SHS	720 Hours of Data Using Manual Hourly Sampling	SULFUR

Equation Code

Equation Cd	Equation Cd Description	Moisture Ind
19-1	NOXR/SO2R (same as F-5)	
19-14	FW (from fuel composition)	
19-2	NOXR/SO2R (from wet NOX or SO2, wet O2, Bwa, Fw)	
19-3	NOXR/SO2R (from wet NOX or SO2, wet O2, H2O, Fd)	1
19-3D	NOXR/SO2R (replacement for 19-3 during diluent cap hours)	1
19-4	NOXR/SO2R (from wet NOX or SO2, dry O2, H2O, Fd)	1
19-5	NOXR/SO2R (from dry NOX or SO2, wet O2, H2O, Fd)	1
19-5D	NOXR/SO2R (replacement for 19-5 during diluent cap hours)	
19-6	NOXR/SO2R (from dry NOX or SO2, dry CO2, Fc)	
19-7	NOXR/SO2R (same as F-6)	
19-8	NOXR/SO2R (from wet NOX or SO2, dry CO2, H2O, Fc)	1
19-9	NOXR/SO2R (from dry NOX or SO2, wet CO2, H2O, Fc)	1
A-2	HGRE (lb/hr wet)	
A-3	HGRE (lb/hr dry)	1
A-4	HGRE (Conversion lb/hr to lb/GWh)	
D-12	SO2 (from SO2 rate for multiple fuels)	
D-15	HIT (from HI from oil or gas)	
D-15A	HI (from HI rate for multiple fuels)	
D-1H	SO2R (from gas sulfur content, GCV)	
D-2	SO2 (from OILM, oil sulfur content)	

Equation Code

Equation Cd	Equation Cd Description	Moisture Ind
D-3	OILM (from volumetric oil flow rate, density)	
D-4	SO2 (from gas sulfur content)	
D-5	SO2 (from gas SO2 emission rate, HI)	
D-6	HI (from gas flow rate, GCV)	
D-8	HI (from oil flow rate, GCV)	
E-2	NOXR (from multiple NOXE systems)	
F-1	SO2 (from SO2 wet, flow)	
F-11	CO2 (from CO2 wet, flow)	
F-14A	CO2C (from dry O2, Fd, Fc)	
F-14B	CO2C (from wet O2, H2O, Fd, Fc)	1
F-15	HI (from wet CO2, flow, Fc)	
F-16	HI (from dry CO2, flow, H2O, Fc)	1
F-17	HI (from wet O2, flow, H2O, Fd)	1
F-18	HI (from dry O2, flow, H2O, Fd)	1
F-19	HI (same as D-8)	
F-19V	HI (from volumetric oil flow rate, GCV)	
F-2	SO2/CO2 (from SO2 or CO2 dry, flow, H2O)	1
F-20	HI (same as D-6)	
F-21A	HI (apportioned from HI for common stack/pipe by MWe)	
F-21B	HI (apportioned from HI for common stack/pipe by steam load)	
F-21C	HI (summed from HI for multiple stacks/pipes)	
F-21D	HI (apportioned from HI for common pipe by uncertified fuel flowmeter)	
F-23	SO2R (from gas SO2 emission rate, HI- same as D-5)	
F-24A	NOX (from NOX rate, HI)	
F-25	HI (for common stack summed from HI for units)	
F-26A	NOX (hourly from wet NOXC, flow)	
F-26B	NOX (hourly from dry NOXC, flow, H2O)	1
F-28	HGM (from Hg concentration, flow)	

Equation Code

Equation Cd	Equation Cd Description	Moisture Ind
F-29	HGM (from Hg concentration, flow, H ₂ O)	1
F-31	H ₂ O (from wet and dry O ₂)	
F-5	NOXR/SO ₂ R (from NOX or SO ₂ dry, O ₂ dry, Fd)	
F-6	NOXR/SO ₂ R (from NOX or SO ₂ wet, CO ₂ wet, Fc)	
F-7A	FD (from fuel composition)	
F-7B	FC (from carbon content, GCV)	
F-8	FD/FC/FW (from multiple fuels)	
G-1	CO ₂ M (from fuel composition)	
G-2	CO ₂ M (from fuel composition adjusted by carbon retained in ash)	
G-3	CO ₂ M (from fuel composition adjusted by carbon retained in ash)	
G-4	CO ₂ (from HI, Fc)	
G-4A	CO ₂ (from CO ₂ rate for multiple fuels)	
G-5	CO ₂ M (for sorbent)	
G-6	CO ₂ M (for sorbent with SO ₂ controls)	
G-8	CO ₂ M (from CO ₂ M for both fuel and sorbent)	
HC-2	HCLRE (lb/MWh wet)	
HC-3	HCLRE (lb/MWh dry)	1
HC-4	HCLRE (Conversion lb/hr to lb/MWh)	
HF-2	HFRE (lb/MWh wet)	
HF-3	HFRE (lb/MWh dry)	1
HF-4	HFRE (Conversion lb/hr to lb/MWh)	
HG-1	HG (converts lb/mmBtu to lb/TBtu)	
K-5	HGC (from Hg in trap, gas volume)	
M-1K	H ₂ O (from wet and dry O ₂ with K-factor adjustment)	
MS-1	Flow-weighted average from multiple stacks	
MS-2	Flow-weighted apportionment to multiple stacks	
N-GAS	FGAS (net gas flow rate)	
N-OIL	FOIL (net volumetric oil flow rate)	

Equation Code

Equation Cd	Equation Cd Description	Moisture Ind
NS-1	NOXR (for affected units in a subtractive configuration)	
NS-2	NOXR (apportioned)	
S-2	SO2RE (lb/MWh wet)	
S-3	SO2RE (lb/MWh dry)	1
S-4	SO2RE (Conversion lb/hr to lb/MWh)	
SS-1A	SO2 (hourly for affected units in a subtractive configuration)	
SS-1B	SO2 (hourly for affected units in a subtractive configuration)	
SS-2A	NOX (hourly for affected units in a subtractive configuration)	
SS-2B	NOX (hourly for affected units in a subtractive configuration)	
SS-2C	NOX (hourly for affected units in a subtractive configuration)	
SS-3A	HI (hourly for affected units in a subtractive configuration)	
SS-3B	HI (hourly for affected units in a subtractive configuration)	
T-FL	FLOW (total stack flow rate)	
X-FL	FLOW (average stack flow rate)	

Gas Type Code

Gas Type Cd	Gas Type Description	
AIR	Purified air material	
APPVD	Other EPA-approved EPA Protocol gas blend	
CO2	EPA Protocol gas consisting of CO2, and a balance gas	
GMIS	Gas manufacturer's intermediate standard	
N2C	EPA Protocol gas bi-blend consisting of NO2 and CO, and a balance gas	
N2C2	EPA Protocol gas bi-blend consisting of NO2 and CO2, and a balance gas	
N2CC	EPA Protocol gas tri-blend consisting of NO2, CO, and CO2, and a balance gas	
NC	EPA Protocol gas bi-blend consisting of NO and CO, and a balance gas	
NC2	EPA Protocol gas bi-blend consisting of NO and CO2, and a balance gas	
NCC	EPA Protocol gas tri-blend consisting of NO, CO, and CO2, and a balance gas	
NO	EPA Protocol gas consisting of NO, and a balance gas	

Gas Type Code

Gas Type Cd	Gas Type Description	
NO2	EPA Protocol gas consisting of NO ₂ , and a balance gas	
NTRM	NIST-traceable reference material	
NX	EPA Protocol gas bi-blend consisting of NO and NO ₂ , and a balance gas	
NXC	EPA Protocol gas tri-blend consisting of NO, NO ₂ , and CO, and a balance gas	
NXC2	EPA Protocol gas tri-blend consisting of NO, NO ₂ , and CO ₂ , and a balance gas	
NXCC	EPA Protocol gas quad-blend consisting of NO, NO ₂ , CO, and CO ₂ , and a balance gas	
O2	EPA Protocol gas consisting of O ₂ , and a balance gas	
OC	EPA Protocol gas bi-blend consisting of O ₂ and CO, and a balance gas	
OC2	EPA Protocol gas bi-blend consisting of O ₂ and CO ₂ , and a balance gas	
OCC	EPA Protocol gas tri-blend consisting of O ₂ , CO, and CO ₂ , and a balance gas	
PRM	SRM-equivalent compressed gas primary reference material	
RGM	Research gas mixture	
SC	EPA Protocol gas bi-blend consisting of SO ₂ and CO, and a balance gas	
SC2	EPA Protocol gas bi-blend consisting of SO ₂ and CO ₂ , and a balance gas	
SN	EPA Protocol gas bi-blend consisting of SO ₂ and NO, and a balance gas	
SN2	EPA Protocol gas bi-blend consisting of SO ₂ and NO ₂ , and a balance gas	
SN2C	EPA Protocol gas tri-blend consisting of SO ₂ , NO ₂ , and CO, and a balance gas	
SN2C2	EPA Protocol gas tri-blend consisting of SO ₂ , NO ₂ , and CO ₂ , and a balance gas	
SN2CC	EPA Protocol gas quad-blend consisting of SO ₂ , NO ₂ , CO, and CO ₂ , and a balance gas	
SNC	EPA Protocol gas tri-blend consisting of SO ₂ , NO, and CO, and a balance gas	
SNC2	EPA Protocol gas tri-blend consisting of SO ₂ , NO, and CO ₂ , and a balance gas	
SNCC	EPA Protocol gas quad-blend consisting of SO ₂ , NO, CO, and CO ₂ , and a balance gas	
SNX	EPA Protocol gas tri-blend consisting of SO ₂ , NO, and NO ₂ , and a balance gas	
SNXC	EPA Protocol gas quad-blend consisting of SO ₂ , NO, NO ₂ , and CO, and a balance gas	
SNXC2	EPA Protocol gas quad-blend consisting of SO ₂ , NO, NO ₂ , and CO ₂ , and a balance gas	
SNXCC	EPA Protocol gas quint-blend consisting of SO ₂ , NO, NO ₂ , CO, and CO ₂ , and a balance gas	
SO	EPA Protocol gas bi-blend consisting of SO ₂ and O ₂ , and a balance gas	
SO2	EPA Protocol gas consisting of SO ₂ , and a balance gas	

Gas Type Code

Gas Type Cd	Gas Type Description	
SOC	EPA Protocol gas tri-blend consisting of SO ₂ , O ₂ , and CO, and a balance gas	
SRM	Standard reference material	
ZAM	Zero Air Material	
ZERO	Zero Level Gas	

Indicator Code

Indicator Cd	Indicator Code Description	
E	Emergency	
I	Ignition (Startup)	
P	Primary	
S	Secondary	

Mats Method Code

Mats Method Cd	Mats Method Description	
CEMS	Continuous Emission Monitoring System (Requires Administrative Approval under 40 CFR 63.7(f))	
LEE	Low Emitting EGU for Total HAP metals, including Hg	
LEST	Low Emitting EGU for some of the non-Hg HAP metals and Quarterly Stack Testing for the rest	
NA	No Applicable Method	
PMCEMS	Particulate Matter Continuous Monitoring System	
PMCPMS	Particulate Matter Continuous Parametric Monitoring System	
PMO	Percent Moisture in the Oil (Oil-fired EGUs, only)	
PMQST	Quarterly Stack Testing for Particulate Matter	
QST	Quarterly Stack Testing	

Mats Method Parameter Code

Mats Method Parameter Cd	Mats Method Param Description	
HCL	Hydrogen Chloride	
HF	Hydrogen Fluoride	
HG	Mercury	
IM	Individual HAP Metals (Including Hg)	
INHGM	Individual non-Hg HAP Metals	
LU	Limited-Use Oil-Fired Unit	
TM	Total HAP Metals (Including Hg)	
TNHGM	Total non-Hg HAP Metals	

Max Rate Source Code

Max Rate Source Cd	Max Rate Source Cd Description	
UMX	Unit Maximum Rate	
URV	Upper Range Value	

Method Code

Method Cd	Method Cd Description	
AD	Appendix D	
ADCALC	Appendix D Measured and Apportioned	
AE	Appendix E	
AMS	Alternative Monitoring System	
CALC	Apportioned or Summed Value	
CEM	Continuous Emission Monitor	
CEMF23	Continuous Emission Monitor or Equation F-23	
CEMNOXR	Continuous Emission Monitor or Calculation from NOx Rate	
CEMST	Hg CEMS and Sorbent Trap Monitoring System	
COM	Continuous Opacity or Particulate Matter Monitor	
EXP	Exempt	
F23	Equation F-23	
FSA	Fueling Sample and Analysis	
LME	Low Mass Emissions	
LTFCALC	Long-Term Fuel Flow Measured and Apportioned	
LTFF	Long-Term Fuel Flow	
MDF	Moisture Default	
MHHI	Maximum Hourly Heat Input	
MMS	Moisture Sensor	
MTB	Moisture Lookup Table	
MWD	Wet and Dry O2 Monitors	
NOXR	NOx Mass Calculated from NOx Emission Rate	
PEM	Predictive Emissions Monitor	
ST	Sorbent Trap Monitoring System	

Operating Level Code

Op Level Cd	Op Level Cd Description	
H	High	
L	Low	
M	Mid	
N	Normal	
T	Typical Unit Load	

Pressure Measure Code

Pressure Meas Cd	Pressure Meas Cd Description	
ELEC	Electronic Manometer/Transducer	
FLUID	Fluid Manometer	
MECH	Mechanical Gauge	

Qual Type Code

Qual Type Cd	Qual Type Cd Description	
COMPLEX	Flow-to-Load Test Exemption due to Complex Stack Configuration (Petition Approved)	
GF	Gas-Fired Unit	
HGAVG	MATS Hg Averaging Group	
LEE	LEE qualification	
LMEA	Annual LME Unit	
LMES	Ozone-Season LME Unit	
LOWSULF	RATA Exemption for Using Only Very Low Sulfur Fuel	
PK	Year-Round Peaking Unit	
PRATA1	Single-Level RATA (Petition Approved)	
PRATA2	Two-Level RATA (Petition Approved)	
SK	Ozone-Season Peaking Unit	

Rata Frequency Code

Rata Frequency Cd	Rata Frequency Cd Description	
2QTRS	Two Quarters	
4QTRS	Four Quarters	
8QTRS	Eight Quarters	
ALTSL	Alt Single-Load Flow	
OS	Ozone Season	

Ref Method Code

Ref Method Cd	Ref Method Cd Description	Parameter Cd
2	FLOW RM 2 (no WAF)	FLOW
20	NOX RM 20	NOXC
20,3	NOX RM 20 and CO2/O2 RM 3	NOX,NOXP
20,3A	NOX RM 20 and CO2/O2 RM 3A	NOX,NOXP
20,3B	NOX RM 20 and CO2/O2 RM 3B	NOX,NOXP
26	EPA Method 26 in Appendix A-8 to 40 CFR Part 60	HCL,HF
26A	EPA Method 26A in Appendix A-8 to 40 CFR Part 60	HCL,HF
29	Hg RM 29 (Appendix A-8 to Part 60)	HG,ST
2F	FLOW RM 2F (no WAF)	FLOW
2FH	FLOW RM 2F with WAF from 2H	FLOW
2FJ	FLOW RM 2F with WAF from CTM-041	FLOW
2G	FLOW RM 2G (no WAF)	FLOW
2GH	FLOW RM 2G with WAF from 2H	FLOW
2GJ	FLOW RM 2G with WAF from CTM-041	FLOW
2J	FLOW RM 2 with WAF from CTM-041	FLOW
3	CO2 or O2 RM 3	CO2,O2
30A	Hg RM 30A Instrumental (Appendix A-8 to Part 60)	HG,ST
30B	Hg RM 30B Sorbent Trap (Appendix A-8 to Part 60)	HG,ST
320	EPA Method 320 in Appendix A to 40 CFR Part 63	HCL,HF
3A	CO2 or O2 RM 3A	CO2,O2

Ref Method Code

Ref Method Cd	Ref Method Cd Description	Parameter Cd
3B	CO2 or O2 RM 3B	CO2,O2
4	H2O RM 4	H2O,H2OM
6	SO2 RM 6	SO2
6,3	SO2 RM 6 and CO2/O2 RM 3	SO2R
6,3A	SO2 RM 6 and CO2/O2 RM 3A	SO2R
6,3B	SO2 RM 6 and CO2/O2 RM 3B	SO2R
6A	SO2 RM 6A	SO2
6A,3	SO2 RM 6A and CO2/O2 RM 3	SO2R
6A,3A	SO2 RM 6A and CO2/O2 RM 3A	SO2R
6A,3B	SO2 RM 6A and CO2/O2 RM 3B	SO2R
6C	SO2 RM 6C	SO2
6C,3	SO2 RM 6C and CO2/O2 RM 3	SO2R
6C,3A	SO2 RM 6C and CO2/O2 RM 3A	SO2R
6C,3B	SO2 RM 6C and CO2/O2 RM 3B	SO2R
7	NOX RM 7	NOXC
7,3	NOX RM 7 and CO2/O2 RM 3	NOX,NOXP
7,3A	NOX RM 7 and CO2/O2 RM 3A	NOX,NOXP
7,3B	NOX RM 7 and CO2/O2 RM 3B	NOX,NOXP
7A	NOX RM 7A	NOXC
7A,3	NOX RM 7A and CO2/O2 RM 3	NOX,NOXP
7A,3A	NOX RM 7A and CO2/O2 RM 3A	NOX,NOXP
7A,3B	NOX RM 7A and CO2/O2 RM 3B	NOX,NOXP
7C	NOX RM 7C	NOXC
7C,3	NOX RM 7C and CO2/O2 RM 3	NOX,NOXP
7C,3A	NOX RM 7C and CO2/O2 RM 3A	NOX,NOXP
7C,3B	NOX RM 7C and CO2/O2 RM 3B	NOX,NOXP
7D	NOX RM 7D	NOXC
7D,3	NOX RM 7D and CO2/O2 RM 3	NOX,NOXP

Ref Method Code

Ref Method Cd	Ref Method Cd Description	Parameter Cd
7D,3A	NOX RM 7D and CO2/O2 RM 3A	NOX,NOXP
7D,3B	NOX RM 7D and CO2/O2 RM 3B	NOX,NOXP
7E	NOX RM 7E	NOXC
7E,3	NOX RM 7E and CO2/O2 RM 3	NOX,NOXP
7E,3A	NOX RM 7E and CO2/O2 RM 3A	NOX,NOXP
7E,3B	NOX RM 7E and CO2/O2 RM 3B	NOX,NOXP
D2H	FLOW RM 2 with Default WAF from 2H	FLOW
D6348	ASTM D6348-03 (Reapproved 2010) "Standard Test Method for Determination of Gaseous Compounds by	HCL,HF
M2H	FLOW RM 2 with Measured WAF from 2H	FLOW
OH	HG Ontario Hydro Method (ASTM D6784-02)	HG,ST

Span Method Code

Span Method Cd	Span Method Cd Description	
F	Formula	
FS	Fuel Sampling and Analysis (for Hg MPC)	
GS	SO2 Default for Gas Units	
HD	Historical Data	
ME	Manufacturer's Estimate for NOX MPC	
OL	Other Limit	
PL	Permit Limit for NOX MEC	
TB	Table Defaults from Part 75 or 40 CFR Part 63, Subpart UUUUU, Appendix A	
TR	Test Results	

Substitute Data Code

Sub Data Cd	Sub Data Cd Description	
FSP75	Fuel-Specific Missing Data	
FSP75C	Fuel-Specific Missing Data with Separate Co-Fired Database	
MHHI	Maximum Rated Hourly Heat Input Rate for LME Units Normal using Long Term Fuel Flow	
NLB	Non Load-Based Missing Data	
NLBOP	Non Load-Based Missing Data with Operational Bins	
OZN75	Ozone vs Non-Ozone NOX Missing Data	
REV75	Inverse Part 75 for H2O or O2 Missing Data	
SPTS	Standard Part 75 for Missing Data	

System Designation Code

Sys Designation Cd	Sys Designation Cd Description	
B	Non-redundant Backup	
CI	Certified Monitoring System at Inlet to Emission Control Device	
DB	Data Backup	
P	Primary	
PB	Primary Bypass	
RB	Redundant Backup	
RM	Reference Method Backup	

System Type Code

Sys Type Cd	Sys Type Description	Parameter Cd
CO2	CO2 Concentration	CO2C
FLOW	Stack Flow	FLOW
GAS	Gas Fuel Flow	FGAS
H2O	Moisture (O2 Wet and Dry)	H2O
H2OM	Moisture Sensor	H2O
H2OT	Moisture Table	H2O
HCL	HCl Concentration CEMS	HCLC
HF	HF Concentration CEMS	HFC
HG	Hg Concentration CEMS	HGC
LTGS	Long-term Gas Fuel Flow	FGAS
LTOL	Long-term Oil Fuel Flow	FOIL
NOX	NOx Emission Rate	NOXR
NOXC	NOx Concentration	NOXC
NOXE	NOx Appendix E	NOXR
NOXP	NOx PEMS	NOXR
O2	O2 Concentration	O2C
OILM	Mass of Oil Fuel Flow	OILM
OILV	Volumetric Oil Fuel Flow	OILV
OP	Opacity	OP
PM	Particulate Matter	PM
SO2	SO2 Concentration	SO2C
ST	Sorbent Trap Monitoring System	HGC

Test Basis Code

Test Basis Cd	Test Basis Description	
H	Gross Heat Rate	
Q	Flow-to-Load Ratio	

Test Reason Code

Test Reason Cd	Test Reason Cd Description	
DIAG	Diagnostic	
INITIAL	Initial Certification	
QA	Quality Assurance	
RECERT	Recertification	

Test Result Code

Test Result Cd	Test Result Cd Description	
ABORTED	Test Aborted	
EXC168H	Fewer than 168 Hours after Exclusions	
FAILED	Test Failed	
FEW168H	Fewer than 168 QA Operating Hours	
IGNORED	Does Not Fulfill Testing Requirement	
INC	Incomplete Test	
INPROG	Baseline Data Collection In Progress	
INVALID	Invalid Test	
PASSAPS	Test Passed Alt Spec	
PASSED	Test Passed	

Train Qa Status Code

Train Qa Status Cd	Train Qa Status Description	
EXPIRED	Required QA (calibration) was not performed on the sample flow meter component.	
FAILED	The sample flow meter is in-control, but a criterion other than relative deviation was not met.	
INC	Incomplete (missing or invalid for hour(s) in the sample collection period.	
LOST	Trap was accidentally lost, damaged, or broken and could not be analyzed.	
PASSED	All criteria passed.	
UNCERTAIN	The relative deviation criterion for the paired traps was not met, while other criteria were met.	

Units Of Measure Code

Uom Cd	Uom Cd Description	
1	100 Standard Cubic Feet / Hour per Megawatt	
2	100 Standard Cubic Feet / Hour per 1000 Pounds / Hour of Steam Load	
3	Pounds / Hour per Megawatt	
4	Pounds / Hour per 1000 Pounds / Hour of Steam Load	
5	Gallons / Hour per Megawatt	
6	Gallons / Hour per 1000 Pounds / Hour of Steam Load	
7	100 Standard Cubic Feet / Hour per mmBtu / Hour of Steam Load	
8	Pounds / Hour per mmBtu / Hour of Steam Load	
9	Gallons / Hour per mmBtu / Hour of Steam Load	
ACFH	Actual Cubic Feet of Stack Flow / Hour	
ACFM	Actual Cubic Feet of Stack Flow / Minute	
AFPM	Actual Feet of Stack Flow / Minute	
AFSEC	Actual Feet of Stack Flow / Second	
AMSEC	Actual Meters of Stack Flow / Second	
BBL	Barrel	
BBLHR	Barrels / Hour	
BTUBBL	BTU per Barrel	
BTUGAL	BTU per Gallon	
BTUHSCF	BTU per 100 Standard Cubic Feet	
BTUKBTU	mmBTU per mmBTU of Steam Load times 1000	
BTUKWH	BTU per Kilowatt Hour	
BTULB	BTU per Pound	
BTUM3	BTU per Cubic Meter	
BTUSCF	BTU per Standard Cubic Feet	
CCHR	Cubic Centimeters / Hour	
CCMIN	Cubic Centimeters / Minute	
DSCMHR	Dry Standard Cubic Meters / Hour	
DSCMMIN	Dry Standard Cubic Meters / Minute	

Units Of Measure Code

Uom Cd	Uom Cd Description	
GAL	Gallon	
GALHR	Gallons / Hour	
GRHSCF	Grains / 100 Standard Cubic Feet	
HR	Hours	
HSCF	Hundred Standard Cubic Feet / Hour	
INH2O	Inches of Water	
KACFH	Thousand Actual Cubic Feet of Stack Flow / Hour	
KACFM	Thousand Actual Cubic Feet of Stack Flow / Minute	
KAFPM	Thousand Actual Feet of Stack Flow / Minute	
KLBHR	1000 Pounds Steam Load / Hour	
KSCFH	Thousand Standard Cubic Feet of Stack Flow / Hour	
KSCFM	Thousand Standard Cubic Feet of Stack Flow / Minute	
KSFPM	Thousand Standard Feet of Stack Flow / Minute	
LB	Pounds	
LBBBL	Pounds per Barrel	
LBGAL	Pounds per Gallon	
LBGWH	Pounds / Giga-watt Hour	
LBHR	Pounds / Hour	
LBM3	Pounds per Cubic Meter	
LBMMBTU	Pounds / mmBtu	
LBMWH	Pounds / Megawatt Hour	
LBSCF	Pounds per Standard Cubic Feet	
LBTBTU	Pounds / Btu	
LHR	Liters / Hour	
LMIN	Liters / Minute	
M3	Cubic Meter	
M3HR	Cubic Meters / Hour	
MACFH	Million Actual Cubic Feet of Stack Flow / Hour	

Units Of Measure Code

Uom Cd	Uom Cd Description	
MMBTU	mmBtu	
MMBTUHR	mmBtu/ Hour	
MSCFH	Million Standard Cubic Feet of Stack Flow / Hour	
MW	Megawatt	
PCT	Percentage	
PPM	Parts per Million	
SCF	Standard Cubic Feet	
SCFCBTU	CO2 Standard Cubic Feet / mmBtu	
SCFDBTU	Dry Standard Cubic Feet / mmBtu	
SCFH	Standard Cubic Feet / Hour	
SCFM	Standard Cubic Feet of Stack Flow / Minute	
SCFWBTU	Wet Standard Cubic Feet / mmBtu	
SFPM	Standard Feet of Stack Flow / Minute	
SMSEC	Standard Meters of Stack Flow / Second	
TNHR	Tons / Hour	
TNMMBTU	Tons / mmBtu	
TON	Tons	
UGSCM	Micrograms / Standard Cubic Meter	

Waf Method Code

Waf Method Cd	Waf Method Cd Description	
AT	Abbreviated Test	
DF	Default	
FT	Full Test	

Component Type Code

Component Type Cd	Component Type Cd Description	Span Indicator	Parameter Cd
BGFF	Billing Gas Fuel Flowmeter		
BOFF	Billing Oil Fuel Flowmeter		
CALR	Calorimeter		
CO2	CO2 Concentration	1	CO2C
DAHS	Data Acquisition and Handling System		
DL	Data Logger or Recorder		
DP	Differential Pressure Transmitter/Transducer		
FLC	Flow Computer		
FLOW	Stack Flow Analyzer	1	FLOW
GCH	Gas Chromatograph		
GFFM	Gas Fuel Flowmeter		
H2O	Continuous Moisture Sensor		H2O
HCL	HCl Concentration Analyzer	1	HCLC
HF	HF Concentration Analyzer		HFC
HG	Mercury Concentration Analyzer (Hg CEMS)	1	HGC
MS	Mass Spectrograph		
NOX	NOx Concentration	1	NOXC
O2	O2 Concentration	1	O2C
OFFM	Oil Fuel Flowmeter		
OP	Opacity Monitor		
PLC	Programmable Logic Controller		
PM	Particulate Matter		
PRB	Probe		
PRES	Pressure Transmitter/Transducer		
SO2	SO2 Concentration	1	SO2C
STRAIN	Sorbent Trap Sampling Train Component, consisting of a		HG
TANK	Oil Supply Tank		

Component Type Code

Component Type Cd	Component Type Cd Description	Span Indicator	Parameter Cd
TEMP	Temperature Transmitter/Transducer		

Fuel Code

Fuel Cd	Fuel Group Cd	Unit Fuel Cd	Fuel Cd Description
ANT	COAL	C	Anthracite Coal
BFG	GAS	OGS	Blast Furnace Gas
BT	COAL	C	Bituminous Coal
BUT	GAS	OGS	Butane Gas
C	COAL	C	Coal
CDG	GAS	OGS	Coal Derived Gas
COG	GAS	PRG	Coke Oven Gas
CRF	OTHER	CRF	Coal Refuse
DGG	GAS	PRG	Digester Gas
DSL	OIL	DSL	Diesel Oil
LFG	GAS	OGS	Landfill Gas
LIG	COAL	C	Lignite Coal
LPG	GAS	LPG	Liquefied Petroleum Gas
MIX	MIX		Mixture (Co-Fired Fuels)
NFS	NFS		Non-Fuel Specific
NNG	GAS	NNG	Natural Gas
OGS	GAS	OGS	Other Gas
OIL	OIL	OIL	Residual Oil
OOL	OIL	OOL	Other Oil
OSF	OTHER	OSF	Other Solid Fuel
PDG	GAS	PRG	Producer Gas
PNG	GAS	PNG	Pipeline Natural Gas
PRG	GAS	PRG	Process Gas

Fuel Code

Fuel Cd	Fuel Group Cd	Unit Fuel Cd	Fuel Cd Description
PRP	GAS	OGS	Propane Gas
PRS	OTHER	PRS	Process Sludge
PTC	OTHER	PTC	Petroleum Coke
R	OTHER	R	Refuse
RFG	GAS	PRG	Refinery Gas
SRG	GAS	OGS	Unrefined Sour Gas
SUB	COAL	C	Sub-Bituminous Coal
TDF	OTHER	TDF	Tire-Derived Fuel
W	OTHER	W	Wood
WL	OTHER	WL	Waste Liquid

Parameter Uom

Param Id	Parameter Cd	Uom Cd	Parameter Format	Min Value	Max Value
10	MNGF	HSCF			
100	VOIL	SCF	10.1		
101	LOAD	MMBTUHR	6.0		
102	SULFUR	PCT	5.2		
103	SULFUR	GRHSCF	8.1		
104	NOX	LBHR	10.1		
105	CO2X	PCT	5.1		20.000
106	OPTIME	HR	4.2		
107	OPHOURS	HR	4.0		
108	OILV	SCFH	10.1		
109	FOIL	SCFH	10.1		
11	MNHI	MMBTUHR			
110	GCV	BTUSCF	10.1	74000.000	1500000.000
117	MNOF	SCFH	10.1		
118	MHHI	MMBTUHR	10.1		

Parameter Uom

Param Id	Parameter Cd	Uom Cd	Parameter Format	Min Value	Max Value
119	BWA	PCT		0.001	0.999
12	MNNX	LBMMBTU		0.100	5.000
120	HGC	UGSCM			
124	BCO2	TON			
125	FLOW	AFSEC			
126	SGF	CCHR			
127	SGF	CCMIN			
128	SGF	DSCMHR			
129	SGF	DSCMMIN			
13	MNOF	GALHR			
130	HGRE	LBGWH			
131	HCLRH	LBMMBTU			
132	HFRH	LBMMBTU			
133	SO2RH	LBMMBTU			
134	HCLRE	LBMWH			
135	HFRE	LBMWH			
136	SO2RE	LBMWH			
137	HGRH	LBTBTU			
138	SGF	LHR			
139	SGF	LMIN			
14	MNOF	LBHR			
140	HCLC	PPM			
141	HFC	PPM			
15	MNOF	BBLHR			
16	MNOF	M3HR			
17	NOCX	PPM		50.000	2000.000
19	NOXR	LBMMBTU			
20	NORX	LBMMBTU		0.100	5.000

Parameter Uom

Param Id	Parameter Cd	Uom Cd	Parameter Format	Min Value	Max Value
21	O2N	PCT			
22	O2X	PCT		10.000	19.000
24	SO2R	LBMMBTU		0.000	1.000
25	SO2X	PPM		0.100	6500.000
26	CO2	TNHR			
27	CO2C	PCT			20.000
29	CO2M	TON			
30	FC	SCFCBTU		900.000	3000.000
31	FD	SCFDBTU		8000.000	12000.000
32	FGAS	HSCF			
33	FOIL	GALHR			
34	FOIL	BBLHR			
35	FOIL	M3HR			
37	FW	SCFWBTU			
39	HI	MMBTUHR			
4	CO2N	PCT		0.100	12.000
40	HIT	MMBTU			
41	OILM	LBHR			
43	NOXM	LB			
45	SO2M	TON			
47	LOAD	MW			
48	LOAD	KLBHR			
5	CO2R	TNMMBTU		0.005	0.100
50	FLOW	ACFH			70000000.000
51	FLOW	ACFM			12000000.000
52	FLOW	AFPM			
53	FLOW	AMSEC			
54	FLOW	INH2O			

Parameter Uom

Param Id	Parameter Cd	Uom Cd	Parameter Format	Min Value	Max Value
55	FLOW	KACFH			700000.000
56	FLOW	KACFM			12000.000
57	FLOW	KAFPM			
58	FLOW	KSCFH			600000.000
59	FLOW	KSCFM			10000.000
6	FLOX	SCFH		1000000.000	30000000.000
60	FLOW	KSFPM			
61	FLOW	MACFH			700.000
62	FLOW	MSCFH			600.000
63	NOXC	PPM			3000.000
64	O2C	PCT			25.000
65	SO2C	PPM			9000.000
66	FLOW	SCFH			60000000.000
67	FLOW	SCFM			10000000.000
68	FLOW	SFPM			
69	FLOW	SMSEC			
7	H2O	PCT		1.000	40.000
70	SO2	LBHR			
71	SORX	LBMMBTU			
72	FOIL	LBHR			
73	OILV	M3HR			
74	OILV	BBLHR			
75	OILV	GALHR			
76	GHR	BTUKWH			
77	GHR	BTULB			
78	GHR	BTUKBTU			
79	FF2L	1			
8	H2ON	PCT		0.100	40.000

Parameter Uom

Param Id	Parameter Cd	Uom Cd	Parameter Format	Min Value	Max Value
80	FF2L	2			
81	FF2L	3			
82	FF2L	4			
83	FF2L	5			
84	FF2L	6			
85	FF2L	7			
86	FF2L	8			
87	FF2L	9			
88	GCV	BTULB	10.1	200.000	220000.000
89	GCV	BTUM3	10.1	2600000.000	53000000.000
9	H2OX	PCT		1.000	40.000
90	GCV	BTUGAL	10.1	10000.000	200000.000
91	GCV	BTUBBL	10.1	420000.000	8400000.000
92	GCV	BTUHSCF	10.1	45000.000	475000.000
93	DENSOIL	LBGAL	8.5	1.000	50.000
94	DENSOIL	LBM3	8.5	260.000	13300.000
95	DENSOIL	LBBBL	8.5	40.000	2100.000
96	DENSOIL	LBSCF	8.5	7.000	380.000
97	VOIL	M3	10.1		
98	VOIL	BBL	10.1		
99	VOIL	GAL	10.1		