
AFS Data Elements Included in the ECHO Data Download

The Integrated Data for Enforcement Analysis (IDEA) system incorporates data from the Air Facility System (AFS).

1.1 AFS Description

AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different EPA system). IDEA's AFS file currently does not contain any data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills.

While AFS maintains data at several levels of detail on an air source, IDEA focuses on the data at the plant level. Plant-level data treats the entire facility as one unit rather than looking at individual emission points, processes, or stacks. Data reported at the plant level include:

- General source Information—identification number, name.
- Significant Violator Information.
- Air Program Information—a repeating block of data addressing each regulatory area that a facility is subject to (e.g., SIP, NSPS, NESHAP, PSD).

AFS records included in the download files are those where the operating status is planned (has applied for a construction permit), under construction, operating, temporarily closed, seasonal, or permanently closed.

Each Air program offers data on the following:

- Historical Compliance Status (quarterly for the past two years—1992 to present)
- Action/Activity Data (inspections, enforcement actions, etc.—1978 to present)
- Operating Status

The action/activity data provided in the download has been “rolled up” to the plant level, to eliminate multi-counting actions which may have been entered at multiple air programs. For example, the same inspection addressing SIP, NSPS, and NSR requirements, and entered into each of the three air program records will only display once (the data element RARCALL would indicate that three air programs were addressed by the action).

Only a subset of data elements from AFS is incorporated into IDEA. This document contains the AFS Data Element table as well as definitions those data elements in IDEA download query.

Air Program Code Definitions

State Implementation Plan (SIP) Section 110 of the Clean Air Act requires each state to adopt and submit to EPA for approval a SIP that provides for the maintenance, implementation and enforcement of the National Ambient Air Quality Standards (NAAQS). Each SIP must include a permit program to regulate the modification and construction of any stationary source of air pollution, including stationary sources in attainment and non-attainment areas of the state, as necessary to assure that NAAQS are achieved. SIP requirements are federally enforceable under Section 113 of the Act. Reference 40 CFR Part 52. The SIP air program is considered applicable to each Federally Reportable stationary source in AFS. Additional reporting requirements for SIP are promulgated as standards for various industrial categories.

These standards are reported as subparts to the SIP, and are identified using the same subpart identification as the New Source Performance Standards (NSPS). Reporting of SIP subparts are optional.

SIP Source Under Federal Jurisdiction (FIP) Under current law, a federally implemented plan to achieve attainment of air quality standards is used when a state is unable to develop an adequate plan, or if jurisdiction does not exist. Sources located on Indian Land should reflect the Native American air program code.

Non-Federally Reportable Used to report State/Local/Tribal requirements not defined as federally reportable [reference Section 1, Minimum Data Requirements (MDRs)].

Chlorofluorocarbons (CFC) Tracking Under Title VI of the Clean Air Act, EPA is responsible for several programs that protect the stratospheric ozone layer. These programs include: Motor Vehicle Air Conditioning; Stationary Refrigeration and Air Conditioning, Halon Blends and Handling; Phase-out of Ozone Depleting Substances; Methyl Bromide; Nonessential Products Ban; Product Labeling, and Federal Procurement. Reference 40 CFR Part 82. This program is not delegated to State, Local, or Tribal agencies.

Prevention of Significant Deterioration (PSD) Part C of the Clean Air Act sets requirements for the prevention of significant deterioration (PSD) of air quality in those areas designated as either attainment or unclassifiable for purpose of meeting the National Ambient Air Quality (NAAQS) standards. These requirements are designed to protect public health and welfare, to assure that economic growth will occur in a manner consistent with the preservation of existing clean air resources and to assure that any decision to permit increased air pollution is made only after careful evaluation of all the consequences of such a decision and after public participation in the decision making process. PSD prohibits the construction and operation of a major emitting facility in an area designed as attainment or unclassifiable unless a permit has been issued that complies with Section 165 of the Act, including the requirement that the facility install the best available control technology for each pollutant subject to regulation.

New Source Review (NSR) New Source Review is a preconstruction permitting program that serves two important purposes: (1.) it ensures the maintenance of air quality standards when factories, industrial boilers and power plants are modified or added. In areas with unhealthy air, NSR assures that new emissions do not slow progress toward cleaner air. In areas with clean air, especially pristine areas like national parks, NSR assures that new emissions fall within air quality standards. Emission calculations are completed using potential emissions. (2.) The NSR program assures that state of the art control technology is installed at new plants or at existing plants that are undergoing a major modification.

In August 2003, EPA issued a final rule that creates a category of activities that automatically will be considered routine maintenance, repair and replacement (RMRR) under the NSR permitting program. The rule defines a process unit, delineates the boundary of a process unit, defines a “functionally equivalent” component, and defines basic design parameters for electric utility steam generating units and other types of process units.

National Emission Standards For Hazardous Air Pollutants (NESHAP Part 61) Section 112 of the Clean Air Act identifies substances that have been designated as hazardous air pollutants (HAPs), known for serious health effects, including cancer, from ambient air exposure. HAPs include: Asbestos, benzene, beryllium, coke oven emissions, inorganic arsenic, mercury, radio nuclides and vinyl chloride. Reference 40 CFR Part 61. Additional reporting requirements for NESHAP are promulgated as standards for various industrial categories. These standards are identified as subparts to the NESHAP, and can be reported to AFS in the 302/502 (Air Program) screen. Subpart reporting is not mandatory.

Acid Precipitation The Acid Rain Program requires major reductions of sulfur dioxide and nitrogen oxide emissions (key components of acid rain) from electric utilities, while establishing a new approach to environmental protection through the use of market incentives, a “cap and trade” process. Affected sources are required to install systems that continuously monitor emissions in order to track progress, ensure compliance, and provide credibility to the trading component of the program. Regulated sources must report all emissions as measured by continuous emissions monitors. EPA has established standard reporting procedures and has issued standard software for such reporting.

Federally Enforceable State Operating Permit Program (FESOP) This program (usually through SIP revision) provides a mechanism for states to establish federally enforceable State operating permits limiting the potential to emit for sources to remain below the applicability threshold for the operating permits program of Title V of the Clean Air Act (CAA). This program is available to allow States to issue FESOPs to small sources and exempt them from the Title V review, as the large number of small sources could be a resource burden on both the agency and the small sources. FESOP provides the mechanism to establish federally enforceable limits on sources’ potential to emit below the Title V threshold. This air program is used for reporting sources classified as Synthetic Minor (SM).

Native American This program is used to identify sources located on Indian Lands. Sources do not have to be operated by tribal entities, but are subject to Tribal authority. In the absence of a Tribal Authorization Rule (TAR) or Implementation Plan (IIP), this air program will be used to identify any source subject to Tribal rule. All other applicable air programs need to be identified.

Maximum Achievable Control Technology (MACT) Part 63 The EPA is directed to use technology-based and performance-based standards to significantly reduce routine emissions of hazardous air pollutants of facilities within an industry group or source category. The NESHAP standards implemented in 1990 regulate specific categories of stationary sources. The standards of this part are independent of NESHAP. A MACT standard is based on emission levels that are already being achieved by the lower-emitting sources of an industrial sector. Eight years after a MACT standard is issued, EPA must assess the remaining health risks in the categories and may implement additional standards to care for any remaining risk. Reference 40CFR Part 63.

Title V Operating Permits Reference 40 CFR Part 70. The Final Rule (July 31, 1992) established an operating permit program for States to develop programs for issuing operating permits to all major stationary sources and to certain other sources. Title V does not impose new requirements, it does provide a permit to operate that assures compliance with all applicable requirements. It allows the delegated agency the authority to collect permitting fees. All permits are required to contain standard permit requirements that specify and reference the origin of authority for each applicable term or condition, the duration of the permit (not to exceed 5 years), the monitoring and related recordkeeping and reporting requirements, emissions trading allowed, Federally-enforceable and compliance requirements. Any operating source with Title V permit application pending should have the “V” air program code with the operating status of “P” for pending entered in AFS. Once the permit has been issued, the operating status should be upgraded to “O” for operating.

1.2 AFS Datasets

Element Name	Data Type	Length	Description
Facility/Source Level Identifying Data (AFS01.TXT 236,361 records)			
AFSID	Char	10	AFS Identifier: State-County-Plant Number
PNME	Char	26	Plant Name
STRT	Char	30	Plant Street Address
CYNM	Char	30	Plant City
CNTY	Char	3	Plant County Code
STAB	Char	2	State Abbreviation
ZIPC	Char	9	Zip Code
SIC1	Num	4	Primary SIC Code
SIC2	Num	4	Secondary SIC Code
NIC1	Char	6	NAIC Code
GOVT	Char	1	AFS Governmental Facility Code
FEDREP	Char	1	Federally Reportable? (Y/N)
DCL1	Char	2	EPA Classification Code
OPST	Char	1	Operating Status
DCS1	Char	1	EPA Compliance Status
HPV	Char	1	Current High Priority Violator
Air Program (AFS02.TXT 974,431 records)			
AFSID	Char	10	AFS Identifier: State-County-Plant Number
APC1	Char	1	Air Program Code
AST1	Char	1	Air Program Status
DLA1	Char	2	EPA-State Classification Code
DCA1	Char	1	EPA-State Compliance Status
SPH1	Char	71	Subparts for Air Program Codes
PLAP	Char	5	Pollutant Code
DCLP	Char	2	Pollutant Classification
DCAP	Char	1	Pollutant Compliance Status
Actions (AFS03.TXT 2,269,998 records)			
AFSID	Char	10	AFS Identifier: State-County-Plant Number
RANT1	Char	2	National Action Type
RANT1_TEXT	Char		National Action Type Description (Text Lookup)
RDTA1	Date	7	Date Achieved
RARCALL	Char	11	Air Program Code -all
RPAM1	Num	7	Penalty Amount (in thousands of dollars)
RRSC1	Char	2	Result code – Stack test and Title V review
RPLC1	Char	5	Pollutant Code
VPL1	Char	17	Violating Pollutants Code -all
VTP1	Char	39	Violation Type Code - all
Historical Compliance - Source Level: Jan. 2000 – Aug. 2012 (AFS04.TXT 27,944,122 records)			
AFSID	Char	10	AFS Identifier: State-County-Plant Number
HMONTH	Num	6	Historical Compliance Month (yyyymm)
HHPV	Char	1	Historical High Priority Violator
HDCS1	Char	1	Historical Compliance Status
Historical Compliance - Air Program Level (AFS05.TXT 12,638,167 records)			
AFSID	Char	10	AFS Identifier: State-County-Plant Number
APC1	Char	4	Air Program Code
HDT1	Num	5	Historical Compliance Date (yyyqq)
HAST1	Char	1	Historical Air Program Status
DCH1	Char	1	Historical Compliance Status
Historical Operating Status - Dec. 2005 – Aug. 2012 (AFS06.TXT 16,824,213 records)			
AFSID	Char	10	AFS Identifier: State-County-Plant Number
HMONTH	Num	6	Historical Compliance Month (yyyymm)
HOPST	Char	1	Historical Operating Status

1.3 AFS Data Element Definitions

The following is a list of AFS data elements and AFS-derived elements contained in the download. The data elements are listed alphabetically by data element name. .

AFSID (AFS Identifier) A ten-character alphanumeric code which uniquely identifies each permitted plant. The AFSID is composed of the Census FIPS state code, the FIPS county code and the unique AFS plant ID.

APC1 (Air Program Code) A one-character code used to identify 1) the regulatory air program(s) that applies to a particular plant or point, and 2) the regulatory air program(s) authorizing and associated with an action taken by a local, state or federal regulatory agency. Code values include:

Code	Description
A	Acid Precipitation
F	FESOP - (NON-TITLE V)
I	Native American
M	MACT (Section 63 NESHAPS)
T	TIP (TRIBAL IMPLEMENTATION PLAN)
V	Title V Permits
0	SIP Source
1	SIP Source under federal jurisdiction
3	Non-Federally Reportable Source
4	CFC Tracking
6	PSD
7	NSR
8	NESHAP
9	NSPS

AST1 (Air Program Status) A one-character code representing the operational condition of the associated air program (APC1). Air Program Status values include:

Code	Description
C	Under Construction
D	NESHAP Demolition
I	Seasonal
L	Landfill
O	Operating
P	Planned (Has Applied For A Construction Permit)
R	NESHAP Renovation
S	NESHAP Spraying
T	Temporarily Closed
X	Permanently Closed

As noted in section 1.1, only values I, O, and T are included in the download file.

CNTY (Plant County Code) Field containing the code of the county where the plant is located.

CYNM (Plant City Name) Field containing the name of the city or town where the plant is located.

DCA1 (EPA –State Compliance Status) A one-character code reflecting the compliance status for a specified air program. See DCS1 for valid code values.

DCAP (Pollutant Compliance Status) A one-character code reflecting the compliance status for a specified air program pollutant. See DCS1 for valid code values.

DCH1 (Historical EPA Plant Compliance Status) A one-character code reflecting the compliance status for a specified air program indicated by APC1. Each DCH1 has a corresponding year-quarter value in HDT1See DCS1 for valid code values.

DCL1 (EPA Classification Code) A two-character code that categorizes a source's emission status according to the Alabama Power Decision's definition of a Major Source, or the 1993 EPA Compliance Monitoring Branch Classification Guidance. If there is no EPA Classification Code present, this field displays the State Classification Code value. AFS generates a plant classification reflecting the highest emission level classification of criteria pollutants regulated by an Air program. DCL1 reflects the EPA Classification Code at the general plant level. Valid codes for the plant/source level (DCL1), the pollutant level (DCLP) and the air program level (DLA1) include:

Code	Description
A	Actual or potential emissions are above the applicable major source thresholds.
A1	Actual or potential controlled emissions >100 tons/year as per Alabama Power Decision.
A2	Actual emissions <100 tons/year, but potential uncontrolled emissions >100 tons/year.
B	Potential uncontrolled emissions <100 tons/year
C	Class is unknown.
E1	Unregulated pollutant actual or potential controlled emissions >100 tons/year as per Alabama Power Decision.
E2	Unregulated pollutant actual emission <100 tons/year.
ND	Major Source thresholds are not defined.
SM	Potential emissions are below all applicable Major Source enforceable regulations or limitations.
UK	Unknown Pollutant Classification.

DCLP (Air Program Pollutant Classification) A two-character code that categorizes a source air program's emission status. See DCL1 above for valid code values.

DCS1 (EPA Plant Compliance Status) A one-character code reflecting EPA's determination of compliance for a facility (or point within a facility) with regard to pollutants regulated by an Air program or by the procedural requirements of a permit. Values include:

Code	Description
A	Unknown With Regard To Procedural Compliance
B	In Violation With Regard To Both Emissions And Procedural Compliance
C	In Compliance With Procedural Requirements
D	HPV Violation (Auto-Generated)
E	FRV Violation (Auto-Generated)
F	HPV On Schedule (Auto-Generated)
G	FRV On Schedule (Auto-Generated)
H	In Compliance (Auto-Generated)
M	In Compliance - CEMs

Code	Description
P	Present, See Other Program(s)
U	Unknown By Evaluation Calculation (Generated Value-Not Available For Input)
W	In Violation With Regard To Procedural Compliance
Y	Unknown With Regard To Both Emissions And Procedural Compliance
0	Unknown Compliance Status
1	In Violation - No Schedule
2	In Compliance - Source Test
3	In Compliance - Inspection
4	In Compliance - Certification
5	Meeting Compliance Schedule
6	In Violation - Not Meeting Schedule
7	In Violation - Unknown With Regard To Schedule
8	No Applicable State Regulation
9	In Compliance - Shut Down

DLA1 (EPA State Classification Code) A two-character code that categorizes an air program's emission status according to the Alabama Power Decision's definition of a Major Source, or the 1993 EPA Compliance Monitoring Branch Classification Guidance. See DCL1 for valid code values.

FEDREP (Federally Reportable) IDEA generates the Federally Reportable indicator. FEDREP displays a "Y" if the facility is federally reportable and a "N" if the facility is not federally reportable. A facility is federally reportable if it's emission classification is "major" or "synthetic minor", or it is subject to NSPS or NESHAP requirements and it's source-level compliance status is not equal to "no applicable state regulation" (AFS.DCL1 = A, A1, A2, SM OR (AFS.APC1 = 8, 9 and AFS.DCS1 is not equal to 8)).

GOVT (AFS Government Facility Code) A one-character code indicating if plant is government facility.

Code	Description
0	PRIVATELY OWNED/OPERATED
1	OWNED/OPERATED BY FED GOV
2	OWNED/OPERATED BY ST GOV
3	OWNED/OPERATED BY COUNTY
4	OWNED/OP BY MUNICIPALITY
5	OWNED/OP BY DISTRICT
6	OWNED/OPERATED BY TRIBE

HAST1 (Historical Compliance Status) A one-character code representing the operational condition of the plant's air program. See AST1 for valid code values.

HDT1 (Historical Compliance Date) The date (in YYYYQ format) associated with an historical air program level compliance status. Quarters are calendar year-quarters (not FY), i.e., quarter one covers January 1 –March 31.

HDCS1 (Historical EPA Plant Compliance Status) A value of DCS1 associated with a HMONTH year month time frame. See DCL1 for valid code values.

HHPV (Historical High Priority Violator) A one-character code indicating if a plant was categorized as a High Priority Violator during a specified HMONTH year-month time frame. See HPV for valid code values.

HMONTH (Historical Compliance Month) The calendar year +month associated with HHPV and HDCS1. Format is YYYYMM.

HOPST (Historical Operating Status) A one-character code representing the operational condition of the plant, as reported at each monthly refresh of AFS data to IDEA. Data extend back to December 2005. The operating status for a plant is generated from the most significant operative value assigned to subordinate Air programs (AST1). See AST1 for valid code values.

HPV (Current High Priority Violator) A one-character code indicating if plant is currently categorized as a High Priority Violator. Values include

Code	Description
B	Violation Unaddressed; EPA And State Share Lead Enforcement
C	Violation Addressed; EPA And State Share Lead Enforcement
D	Src W/Svil=B W/Changed Comp. Status Code From 1 Or 6 To 2,3,4,8 Or 9(Obsolete)
E	Violation Unaddressed; EPA Has Lead Enforcement
F	Violation Addressed; EPA Has Lead Enforcement
G	Src W/Svil=E W/Changed Comp. Stat. Code from 1 Or 6 To 2,3,4,8 Or 9(Obsolete)
H	EPA (Lead) Resolved In A Prior Fiscal Year (Obsolete)
P	Both (Lead) Resolved In A Prior Fiscal Year (Obsolete)
S	Violation Unaddressed; State/Local Has Lead Enforcement
T	Violation Addressed; State Has Lead Enforcement
U	Src W/Svil=S W/Changed Compliance Status from 1 Or 6 To 2,3,4,8, Or 9 (Obsolete)
V	State (Lead) Resolved in A Prior Year (Obsolete)
X	Violation Unaddressed; Enforcement Lead Unassigned

OPST (Operating Status) A one-character code representing the operational condition of the plant. The operating status for a plant is generated from the most significant operative value assigned to subordinate Air programs (AST1). See AST1 for valid code values.

NIC1 (Primary NAIC Code) The Primary NAIC Code is the North American Industry Classification (NAIC) code for the plant. The North American Industry Classification System (NAICS) has replaced the U.S. Standard Industrial Classification (SIC) system.

PLAP (Pollutant Code) A five-character code that identifies a pollutant tracked at the air program level. See Appendix 1 for values.

PNME (Plant Name) The name associated with a plant at a given location.

RANT1 (National Action Type) A two-character code identifying a compliance activity including inspections and enforcement actions. The National Action Type field translates region-specific action type codes to the corresponding EPA national activity code. This field represents unique actions which may be recorded multiple times at different air programs, *e.g.*, the same inspection addressing Title V, SIP

and NSPS requirements is represented by a single RANT1 value. The lead agency for a national action is indicated within its description. The most commonly used codes for inspections are: FF, FS, FE, FZ, 1A, & 5C for full inspections, and EM, EO, ES, EX,, PC, PO, PP, PR, PS & PX for partial inspections. The most commonly used codes for formal enforcement actions are: 1B, 2D, 6B, 7A, 7E, 7F, 8A, 8C, & 9A.

Valid values for RANT1 include:

Code	National Description
1A	EPA INSPECTION - LEVEL 2 OR GREATER
1B	113(D)(4) INNOV. TECH. ORDER APPROVD/ISS
1C	APPLICATION TO EPA COMPLETE
2A	EPA CONDUCTED STACK TEST
2C	EPA PSD PERMIT ISSUED
2D	CONSENT AGREEMENT FILED
2K	COMPL BY STATE, NO ACT REQ
2L	PROPOSED SIP REVISION TO COMPLIANCE
3A	OWNER/OPERATOR CONDUCTED SOURCE TEST
3C	NEW SOURCE COMMENCE CONSTRUCTION
3E	WARNING NOTIFICATION OF VIOLATION
3F	WARNING SUBSTANTIVE VIOLATION
4A	NESHAP WAIVER OF COMPLIANCE ISSUED
4C	NEW SOURCE START-UP
4D	STATE NONCOMPLIANCE PENALTY ASSESSED
5A	EPA PRE-NOV LETTER SENT
5C	STATE INSPECTION - LEVEL 2 OR GREATER
5D	STATE PSD APPLICABILITY DETERMINATION
6A	EPA NOV ISSUED
6B	EPA COURT CONSENT DECREE
6C	STATE CONDUCTED STACK TEST
6D	STATE PSD APPLICATION COMPLETE
7A	NOTICE OF NONCOMPLIANCE (SECTION 120)
7C	STATE NOV ISSUED
7D	STATE PSD PERMIT ISSUED
7E	EPA 167 ORDER
7F	113D APO COMPLAINT FILED.
7G	COMPL BY EPA, NO ACT REQ
8A	EPA 113(A) ORDER ISSUED
8B	113(D) PENALTY ORDER FILED
8C	STATE ADMINISTRATIVE ORDER ISSUED
8D	OFFSET APPLICABILITY DETERMINATION
9A	113(D) DELAYED COMPL. ORDER APPROVED/ISSUED BY EPA
9B	EPA PSD APPLICABILITY DETERMINATION
9D	OFFSET PERMIT ISSUED
C1	113 CONFERENCE

Code	National Description
C4	FINAL COMPLIANCE
C7	CLOSEOUT MEMO ISSUED
C8	DECREE LODGED
CB	TITLE V ANNUAL COMPL CERT DUE/RECVD BY
CC	TITLE V COMPLIANCE CERT DUE/RECEIVED BY
EC	EPA INVESTIGATION CONDUCTED
ED	EPA/STATE DEMAND LETTER
EE	COMPLAINT ON-SITE PCE (EPA)
EI	EPA INVESTIGATION STARTED
EM	PROCESS OFF-SITE PCE (EPA)
EO	ON-SITE PCE OBSERVATION (EPA)
ER	TITLE V COMPLIANCE CERTIFICATION REVIEW BY EPA
ES	EPA PCE/ON-SITE (PCE = Partial Compliance Evaluation)
EX	EPA PCE/OFF-SITE
FE	EPA FCE/ON-SITE (FCE = Full Compliance Evaluation)
FF	STATE CONDUCTED FCE/OFF-SITE
FS	STATE CONDUCTED FCE/ON-SITE
FZ	EPA CONDUCTED FCE/OFF-SITE
HR	113D HEARING
LL	EPA SECTION 114 LETTER
OT	OTHER ADDRESSING ACTION
PC	COMPLAINT ON-SITE PCE (STATE)
PO	ON-SITE PCE OBSERVATION (STATE)
PP	PERMIT ON-SITE PCE (STATE)
PR	PROCESS OFF-SITE PCE (STATE)
PS	STATE PCE/ON-SITE
PX	STATE PCE/OFF-SITE
SC	STATE INVESTIGATION CONDUCTED
SD	STATE DEMAND LETTER
SE	113(D) SETTLEMENT
SI	STATE INVESTIGATION STARTED
SR	TITLE V COMPLIANCE CERTIFICATION REVIEW BY STATE
ST	AGENCY NON-MDR STACK TEST
TE	EPA REQ (O/O COND) STACK TEST/NOT OBSVD
TO	EPA REQ (O/O COND) STACK TEST OBSERVED & REVIEWED
TR	STATE REQ (O/O COND) STACK TEST/NOT
VR	VIOLATION RESOLVED
WD	EPA 113D WITHDRAWN

Note: this is a subset of all possible RANT1 values, limited to compliance monitoring and enforcement activities.

RARCALL (National Action Type - Air Programs - All) A field which indicates all air programs associated with a given National Action Type (RANT1). Each associated APC1 is delimited by a

single blank space between values.

RDTA1 (Date Achieved) Field that indicates the date (MM/DD/YY) of a completed compliance action (RANT1).

RPAM1 (Penalty Amount) Field that indicates the amount of the civil penalty associated with a national action type (RANT1) which was assessed, or agreed to by a facility in the final agreement between the enforcement authority and the plant.

RPLC1 (Pollutant Code) A five-character code that identifies a pollutant tracked at the action level. See Appendix 1 for values.

RRSC1 (Result Code) Code indicating results of Stack Test and Title V review. Values include:

Code	Description
01	ACTION ACHIEVED
02	NOT ACHEIVED
03	ACTION RESCHED.
97	APPROVED
98	DISAPPROVED
99	PENDING
FF	STACK TEST FAILED
FR	FED REPT VIOL
MA	QEER ADEQUATE
MC	IN COMPLIANCE
MI	QEER INADEQUATE
MR	RETEST REQ
MU	UNKNOWN CMST
MV	IN VIOLATION
PP	STACK TEST PASSED

SIC1 (Primary SIC Code) The *Primary SIC Code* is the four-character Standard Industrial Classification code that classifies the main product produced or service performed at the plant.

SIC2 (Secondary SIC Code) The Secondary SIC Code is the four-character Standard Industrial Classification code that classifies a product produced or service performed at the plant that is other than the one described by the Primary SIC Code (SIC1).

SPH1 (Subparts for Air Program Codes) A field indicating applicable air program subparts. Multiple subpart codes are delimited by a single blank space within SPH1. Subpart code values are:

Code	Description
AA	ELEC-ARC STEEL FURNACE 10/21/74-8/17/83
AAA	EL-ARC FRN, ARGON-02 DECARB VESSL 8/7/83
B	RADON FROM UNDERGROUND URANIUM MINES
BB	BENZENE EMISS FROM BENZENE TRANSFR OPER
BB	KRAFT PULP MILLS

Code	Description
BBB	RUBBER TIRE MANUFACTURE
C	BERYLLIUM
CC	GLASS MANUFACTURING PLANT
CCCC	COMMERCIAL & INDUSTRIAL SOLID WASTE INCINERATORS CONSTRUCTED
CE	EXISTING HOSPITAL/MEDICAL/INFECTIOUS WASTE INCINERATORS
D	BERYLLIUM ROCKET MOTOR FIRING
D	FOSSIL FUEL GENER BUILT AFTER 8/17/71
DA	ELEC UTIL STEAM GENER AFTER 9/18/78
DB	INDUS-COMMERC-INSTITUTL STEAM GENERATOR
DC	SMALL INDUS-COMMER-INSTITUTL STEAM GENER
DD	GRAIN ELEVATORS
DDD	VOC EMISS FROM POLYMER MANUFACTURING
E	MERCURY
E	INCINERATORS
EA	MUNICIPAL WASTE COMBUSTORS
EC	NEW HOSPITAL/MEDICAL/INFECTIOUS WASTE INCINERATORS
EE	SURFAC COATING OF METAL FURNITURE
F	VINYL CHLORIDE
F	PORTLAND CEMENT PLANTS
FF	BENZENE WASTE OPERATIONS
FFF	FLEXIBLE VINYL/URETHANE COATING/PRINTING
G	NITRIC ACID PLANTS
GG	STATIONARY GAS TURBINES
GGG	EQUIP VOC LEAKS PETROLEUM REFINERIES
H	RADIONUCS OTR THN RADON FROM DPT OF ENGY
H	SULFURIC ACID PLANTS
HH	LIME MANUFACTURING PLANTS
HHH	SYNTHETIC FIBER PRODUCTION FACILITIES
I	RADIONUCS NRC LICNSD OR FEDRL, NOT SUB-H
I	ASPHALT CONCRETE PLANTS
III	VOC EMISS OF SOCM I AIR-O2 UNIT PROCESS
J	EQUIP LEAK (FUGITIVE EMISS SRC) BENZENE
J	PETROLEUM REFINERIES
JJJ	PETROLEUM DRY CLEANERS
K	RADIONUCS FROM ELEMENTAL PHOSPHORUS PLNT
K	PETROLEUM STORAGE VESSEL 6/11/73 5/19/78
KA	PETROLEUM STORAGE VESSEL 5/19/73 7/23/84
KB	VOLATILE LIQ/PETRO STORAGE VESSEL 7/23/84
KK	LEAD-ACID BATTERY MANUFACTURING PLANTS
KKK	VOC EMISS, ONSHORE NATURAL GAS PROC PLNT
L	BENZENE FROM COKE BY-PRODUCT RECOVERY
L	SECONDARY LEAD SMELTERS
LL	METALLIC MINERAL PROCESSING PLANTS
LLL	SO2 EMISS, ONSHORE NATURAL GAS PROC PLNT

Code	Description
M	ASBESTOS
M	SECONDARY BRASS & BRONZE PRODUCTN PLANTS
MM	AUTO/LT-DUTY TRK SURFACE COATING OPERATN
N	INORGANIC ARSENIC, FROM GLASS MANUFACT
N	PRIMARY EMISS BASIC O2 PROCESS FURNACES
NA	SECNDRY EMISS BASIC O2-PROC STEEL FACIL
NN	PHOSPHATE ROCK PLANTS
NNN	VOC EMISS OF SOCMI DISTILLATION OPERATN
O	INORG ARSENIC FROM PRIMARY COPPER SMLTR
O	SEWAGE TREATMENT PLANTS
OOO	NONMETALLIC MINERAL PROCESSING PLANTS
P	INORG ARSENIC, ARS TRIOXIDE, METAL ARS
P	PRIMARY COPPER SMELTERS
PP	AMMONIUM SULFATE MANUFAC
PPP	WOOL FIBERGLASS INSULATION PRODUCTION - NSPS
Q	RADON FROM DOE FACILITIES
Q	PRIMARY ZINC SMELTERS
QQ	GRAPH ART: PUBLICATION ROTOGRAVURE PRINT
QQQ	VOC EMISS PETRO REFINERY WATERWASTE SYS
R	RADON FROM PHOSPHOGYMSUM STACKS
R	PRIMARY LEAD SMELTERS
RR	PRESSR-SENSST TAPE, LABEL SURFACE COATING
RRR	SOCMI REACTOR
S	PRIMARY ALUMINUM REDUCTION PLANTS
SS	LARGE APPLIANCES
SSS	MAGNETIC TAPE COATING
T	RADON, DISPOSAL OF URANIUM MILL TAILINGS
T	PHOSPHATE FRTLZR: WET-PROC PHOSPH ACID
TT	METAL COIL SURFACE COATING
TTT	IND-SURF-COAT: PLASTICS, BUSINESS MACHNS
U	PHOSPHATE FRTLZR: SUPERPHOSPHORIC ACID
UU	ASPHALT PROCESSING & ROOFING MANUFACTURE
UUU	CALCINERS/DRYERS IN MINERAL INDUSTRIES
V	EQUIPMENT LEAKS (FUGITIVE EMISSIONS SRC)
V	PHOSPHATE FRTLZR: DIAMMONIUM PHOS PLANT
VV	EQUIPT VOC LEAKS IN SYNTH-ORGAN-CHEM MFG
VVV	POLYMERIC COATING OF SUPPORTING SUBSTRATS FACILITIES - NSPS
W	RADON FROM OPERATING MILL TAILINGS
W	PHOSPHATE FRTLZR: TRIPLE SUPERPHOS PLNT
WW	BEVERAGE CAN SURFACE COATING
WWW	MUNICIPAL SOLID WASTE LANDFILLS
X	PHOSPHATE FRTLZR: GRANULAR 3-SUPER STOR
XX	BULK GASOLINE TERMINALS
Y	BENZENE EMISS FROM BNZN STORAGE VESSELS

Code	Description
Y	COAL PREPARATION PLANTS
Z	FERROALLOY PRODUCTION FACILITIES

STAB (State Code) Two-character postal abbreviation code to identify the state where the plant is located.

STRT (Plant Street Address) Field that indicates the street address for the physical location of the plant.

VPL1 (Violating Pollutants) One or more five character code values that identifies pollutant(s) in violation by the related national action. See Appendix 1 for values.

VTP1 (Violation Type Codes) One or more three character codes that identify the types of violations cited for a violation or administrative penalty. Values are:

Code	Description
GC1	Fail to Obtain Psd or Nsr Permit and/or a Permit for Major Mods to Either
GC2	Viol. of Air Toxics Req. Resulting in Either EE or Viol. Op Parm Restricts
GC3	Viol. by SM of Emis Lim or Perm. Condition Effecting Srces PSD, NSR or T5
GC4	Viol. of any Substantive Term of any S/L or Fed Order, Consent Decree or AO
GC5	Substantial Viol. of T5 Cert. Obligation, e.g., Failure to Submit a Cert
GC6	Substantial Violation of Srcs Obligation to Submit T5 Permit Application
GC7	Test/Monitor/Records/Reporting Viol. that Substan. Interfere w/Enf or Cmst
GC8	Viol. of Allw Emis. Limit Detected during a Reference Method Stack Test
GC9	Clean Air Act (CAA) Violations by Chronic or Recalcitrant Violators
G10	Substantial Violation of Clean Air Act Section 112(R) Requirements
M1A	Any Violation of Emission Limit Detected via Stack Testing
M1B	Violation of Emission Limits > 15% via Sampling
M1C	Violation of Emission Limits > The SST (Supplemental Sig. Threshold)
M2A	Violation of Direct Surrogate For >5% of Limit For >3% of Operating Time
M2B	Violation of Direct Surrogate For >50% of Operating Time (OT)
M2C	Violation of Direct Surrogate of >25% For 2 Reporting Periods
M3A	Violation of Non-Opacity Standard via CEM of >15% For >5% of Operating Time
M3B	Violation of Non-Opacity Standard via CEM of the Supplement. Sig. Threshold
M3C	Viol. of Non-Opacity Std via CEM of >15% for 2 Reporting Periods
M3D	Viol. of Non-Opacity Std via CEM of >50% of the Oper Time during Report Per
M3E	Viol of Non-Opacity Std via CEM of >25% During 2 Consec. Reporting Periods
M3F	Any Violation of Non-Opacity Standard via CEM
M4A	Violation of Opacity Standards (0-20%) via Continuous Opacity Monitoring
M4B	Viols. of Opacity Stds >3% of Op Time via Com During 2 Consec. Rept Perds
M4C	Violation of Opacity Stds (>20%) via Com For >5% of Operating Time
M4D	Violation of Opacity Standards (>20%) via Com For 5% Operating Time
M4E	Violation of Opacity Standards (0-20%) via Method 9 VE Readings
M4F	Violation of Opacity Standards (>20%) via Method 9 VE Readings

ZIPC (Zip Code) Field that contains the five or nine-digit zip code for the plant address.

Appendix 1. Pollutant Codes Used by Data elements PLAP and RPLC

Code	Description
AB	Asbestos
ACEHY	Acetaldehyde
ACEPH	Acetophenone
ACET	Acetone
ACETM	Acetamide
ACETR	Acetonitrile
ACETY	Acetylenes (Alkynes)
ACRAC	Acrylic Acid
ACRLA	Acrylamide
ACRLE	Acrolein
ACRNI	Acrylonitrile
ADMIN	Administration
AGC	Silver Compounds
AL-PT	Aluminum (Tsp)
ALC	Aluminum Compounds
ALDHY	Aldehydes
ANLI	Aniline
ANISO	Anisidine,O-
ANTCO	Antimony Compounds (E649921)
AROM	Aromatics
ARSCO	Arsenic Compounds (E649418)
AS	Arsenic
ASC	Arsenic Compounds
BA-PT	Barium
BAC	Barium Compounds
BAYGN	Baygon
BDCEE	Bis(2-Chloroethyl) Ether
BE	Beryllium
BEC	Beryllium Compounds
BENYC	Benzyl Chloride
BENZI	Benzidine
BERCO	Beryllium Compounds (E649947)
BETRC	Benzotrithloride
BIPHE	Biphenyl
BROMO	Bromoform
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
BUT13	Butadiene,1,3-
BZ	Benzene
CAA	Chloroacetic Acid
CACHO	Catechol
CACNA	Calcium Cyanamide
CADCO	Cadmium Compounds (E649954)
CADIS	Carbon Disulfide

Code	Description
CAPRO	Caprolactam
CAPTA	Captan
CARBA	Carbaryl
CATET	Carbon Tetrachloride
CD	Cadmium
CDC	Cadmium Compounds
CE	Coke Oven Emissions
CFC	Chlorofluorocarbons
CHACP	Chloroacetophenone
CHBET	Chlorobenzilate
CHBNZ	Chlorobenzene
CHBT2	Chlorobutadiene,2-,1,3-
CHDIF	Chlorodifluoromethane
CHETB	Chloromethylether,Bis
CHLBN	Chloramben
CHLFO	Chloroform
CHLRD	Chlordane
CHPR3	Chloropropene,3-
CHRCO	Chromium Compounds (E649962)
CH4	Methane
CL	Chlorine
CLD	Chlorinated Dioxin
CLD&F	Chlorinated Dioxin And Furans 2,3,7,8 Congeners Only (Teq) (E17000407)
CLETH	Chloroethane
CLPH	Chlorophenols
CNC	Cyanide Compounds
CO	Carbon Monoxide
COBCO	Cobalt Compounds (E649970)
COC	Cobalt Compounds
COE	Coke Oven Compounds (E649830)
CO2	Carbon Dioxide
COS	Carbonyl Sulfide
CRC	Chromium Compounds
CRSL	Cresol (All Isomers)
CRSLM	Cresol,M-
CRSLO	Cresol,O-
CRSLP	Cresol,P-
CR6PT	Chromium Vi
CU-PT	Copper (Tsp)
CUC	Copper Compounds
CUREN	Curene
C3F6	Perfluoroethane/Hexafluoroethane

Code	Description	Code	Description
C4F10	Perfluorobutane	FACIL	Facility-Wide Permit Requirements
C6F14	Perfluorohexane	FD	Fugitive Dust
C9H12	Ethylidene-2-Norbornene	FE	Fugitive Emissions
DBCP1	Dibromochloropropane,1,2,3-	FL	Fluorides
DBNZF	Dibenzofuran	FMF	Fine Mineral Fibers_(E649533)
DCB14	Dichlorobenzene,1,4-	FORM	Formaldehyde
DCB33	Dichlorobenzidine,3,3'-	FURAN	Furan
DCE11	Dichloroethane,1,1-	GLYC	Glycerol
DCP12	Dichloropropane,1,2-	GLYET	Glycol Ethers (E651141)
DCP13	Dichloropropene,1,3-	HC	Total Hydrocarbons
DDE	Dde (Dichlorodiphenyldichloroethylene)	HCB	Hexachlorobenzene
DDVP	Vapona	HCCCH	1,2,3,4,5,6-Hexachlorocyclohexane (Aka Lindane)
DEHP	Ethylhexylphthalate,Bis,2-	HCCPD	Hexachlorocyclopentadiene
DES	Diethyl Sulfate	HCE	Hexachloroethane
DIAZM	Diazomethane	HCL	Hydrogen Chloride
DIETA	Diethanolamine	HCY	Hydrogen Cyanide
DMANN	Dimethylaniline,N,N-	HC13B	Hexachloro-1,3-Butadiene
DMAZ4	Dimethylaminoazobenzene,4-	HC36	Methyl Ethyl Ketone
DMB33	Dimethylbenzidine,3,3'-	HC53	Tetrachloroethylene (Perchloroethylene)
DMD44	Diphenylmethanediisocyanate,4,4'-	HC81	Xylene(S)
DMFNN	Dimethylformamide,N,N-	HDRQ	Hydroquinone
DMH11	Dimethylhydrazine,1,1-	HDRZB	Hydrazobenzene
DMN	N-Nitrosodimethylamine	HDRZN	Hydrazine
DMPHT	Dimethyl Phthalate	HF	Hydrofluoric Acid
DMSAT	Dimethyl Sulfate	HFC	Hafnium Carbide
DMTCH	Dimethylcarbonyl Chloride	HFCL2	Hafnium Chloride Oxide Hfcl2o
DMXBZ	Dimethoxybenzidine,3,3'-	HFCL4	Hafnium Carbide Hfcl4,T-4
DNBP	Di-N-Butyl Phthalate	HFCS	Hydrofluorocarbons
DNP	Dinitrophenol,2,4-	HFC1	HFC -365mfc
DNT24	Dinitrotoluene,2,4-	HFC10	HFC -236ea, Propane, Hexafluoro-
DOC+	4,6-Dinitro-O-Cresol Including Salts_(E650077)	HFC11	HFC -245eb, Propane, Pentafluoro
DT24	Diaminotoluene,2,4-	HFC12	HFC-236fa, Propane, Hexafluoro
DXN14	Dioxane,1,4-	HFC13	HFC -245fa, Propane, Pentafluoro
EBENZ	Ethylbenzene Aka-Phenylethane	HFC14	HFC -245ca, Propane, Pentafluoro
ECH	Epichlorohydrin	HFC15	HFC -245ea, Propane, Pentafluoro
EDB	Ethylene Dibromide	HFC2	HFC -134a
EDC	Ethylene Dichloride	HFC23	Methane, Trifluoro
EO	Ethylene Oxide	HFC3	HFC -143a
EPB12	Epoxybutane,1,2-	HFC32	Methane, Difluoro
ETACR	Ethyl Acrylate (Inhibited)	HFC4	HFC -134
ETGLY	Ethylene Glycol	HFC41	Methane, Fluoro
ETHAN	Ethanol	HFC5	HFC -152a
ETHYL	Ethylene Aka-Ethene	HFC6	HFC -161
ETLEN	Ethyleneimine	HFC7	HFC -125
ETU	Ethylene Thiourea	HFC8	HFC -4310mee, Pentane, Decafluoro

Code	Description
HFC9	HFC -227ea, Propane, Decafluoro-
HFE	Hydrofluorinated Ethers
HGC	Mercury Compounds
HMPA	Hexamethylphosphoramide
HNO3	Nitric Acid
HPTCR	Heptachlor
HSO4P	Sulfuric Acid
HXMDI	Hexamethylene Diisocyanate
HXNE	Hexane,N-
H2	Hydrogen
H2S	Hydrogen Sulfide
ISBTA	Propane, 2-Methyl-, Isobutane
ISPBZ	Isopropylbenzene Aka-Cumene
ISPR	Isophorone
KETON	Ketones
LEACO	Lead Compounds (E650002)
MAGCO	Manganese Compounds (E650010)
MC	Methylene Chloride
MCANH	Maleic Anhydride
MEA44	Methylenedianiline,4,4'-
MEBRO	Methyl Bromide
MECHE	Methyl Chloromethyl Ether
MECLD	Methyl Chloride
MEISC	Methyl Isocyanate
MERCO	Mercury Compounds (E650028)
MMA	Methyl Methacrylate
MMH	Methyl Hydrazine
MN-PT	Manganese
MNC	Manganese Compounds
MNU	N-Nitroso-N-Methylurea
MPN42	Methylpentanone,4-,2-
MTBE	Ether, Tert-Butyl Methyl
MTNIO	Methane, Iodo-
MTNOL	Methanol
MTXLR	Methoxychlor
MXYL	M-Xylene Aka-1,3-Dimethylbenzene
NAPH	Naphthalene
NB	Nitrobenzene
NDP4	Nitrodiphenyl,4-
NF3	Nitrogen Trifluoride
NH3	Ammonia
NI-PM	Nickel Powder
NI-PT	Nickel
NIC	Nickel Compounds
NIKCO	Nickel Compounds (E650036)

Code	Description
NIPR2	Nitropropane,2-
NMOL	N-Nitrosomorpholine
NO	Nitric Oxide
NO2	Nitrogen Dioxide
NVOC	Non-Volatile Organic Compounds
N2O	Nitrous Oxide
OACID	Organic Acids
OD	Odors
OLEF	Olefins
OT	Other Emissions Other Than Road Based
OXYL	O-Xylene Aka-1,2-Dimethylbenzene
P	Phosphorous (Yellow)
PAH6	Anthracene
PARAF	Paraffins (Alkanes)
PATHI	Parathion
PB	Lead
PBB	Polybrom. Biphenyls
PBC	Lead Compounds
PCBS	Polychlorinated Biphenyls
PCNB	Pentachloronitrobenzene
PCP	Pentachlorophenol
PDAP	Phenylenediamine,P-
PGLY	Propanediol,1,2-
PHNOL	Phenol
PHPNE	Phosphine
PHSGN	Phosgene
PLB	Propiolactone,B-
PM10	Particulate Matter < 10 Um
PM2.5	Particulate Matter < 2.5 Um
PNP	Nitrophenol,P-
POM	Polycyclic Organic Matter
PQNON	P-Quinone
PRAL	Propionaldehyde
PRENM	Propyleneimine
PROSU	Propane Sultone
PROX	Propylene Oxide
PRPYL	Propylene
PT	Total Particulate Matter
PTCAN	Phthalic Anhydride
PX	Pollutant X
PXYL	P-Xylene Aka-1,4-Dimethylbenzene
P1	Fine Particulates: High Probability Of Violation
P2	Fine Particulates: Low Probability Of Violation
P224T	Pentane, 2,2,4-Trimethyl-
QNLNE	Quinoline

Code	Description
RADNU	Radionuclides (Including Radon)5 (E649632)
RD	Radionucleides
ROC	Reactive Organic Compound
RSC	Reduced Silver Compounds
SB-PT	Antimony (Tsp)
SBC	Antimony Compounds
SEC	Selenium Compounds (E650044)
SF6	Sulphur Hexafluoride
SO2	Sulfur Dioxide
SO3	Sulfur Trioxide
SO4	Sulfates
STYOX	Styrene Oxide
STYR	Styrene Aka-Ethenylbenzene
SVOC	Semi-Volatile Organic Compounds
TB124	Trichlorobenzene,1,2,4-
TCA	1,1,1-Trichloroethane
TCDF	Tetrachlorodibenzofuran,2,3,7,8-
TCE12	Tetrachloroethane,1,1,2,2-
TC245	Trichlorophenol,2,4,5-
TC246	Trichlorophenol,2,4,6-
TEA	Triethylamine
TE112	Trichloroethane,1,1,2-
THAP	Total Hap Pollutant
TI	Thallium
TI-PT	Titanium (Tsp)
TIN	Tin, As Sn
TITE	Titanium Tetrachloride
TNMOC	Total Non-Methane Organic Compounds
TOLU	Toluene Aka-Methylbenzene
TOLUO	Toluidine,O-
TOX	Toxaphene
TRFLR	Trifluralin
TS	Total Reduced Sulphur-Sulfide
TSP	Total Suspended Particulate (Physical Property)
T24DI	Toluene,2,4,Diisocyanate
URTHN	Urethane
VC	Vinyl Chloride
VE	Visible Emissions
VHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compounds
VYAC	Vinyl Acetate
VYBR	Vinyl Bromide
ZN	Zinc
ZNC	Zinc Compounds
11DCE	Dichloroethylene,1,1-

Code	Description
124TB	1,2,4-Trimethylbenzene Aka-Pseudoc
2,4-D	2,4-Dichlorophenoxyacetic Acid
2ACFL	Fluorenylacetamide,N-,2-
2P1DM	2 Propanol, 1 (Dimethylamino)
24XYL	Xylenol
3CLET	Trichloroethylene
43516	Trans-Crotonaldehyde
43520	Cis-Crotonaldehyde
95166	Hydrazine Monohydrate