



EPA's Enforcement and Compliance History Online (ECHO)

<http://echo.epa.gov/>

ECHO DFR REST Services

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A. INTRODUCTION

This document describes the REST web services used to provide data for the EPA’s Enforcement and Compliance History Online (ECHO), Detailed Facility Report (DFR) available from ECHO’s web site located at <http://echo.epa.gov/>. ECHO is a Web-based tool that provides public access to compliance and enforcement information for EPA-regulated facilities. This includes facilities regulated as Clean Air Act (CAA) stationary sources, Clean Water Act (CWA) direct dischargers, Resource Conservation and Recovery Act (RCRA) hazardous waste generators/handlers, and Safe Drinking Water Act (SDWA) water systems providing drinking water. Other data of interest from other EPA sources is also supplied. ECHO integrates information about facilities from separate media-specific data systems at EPA. Much of this data has not been accessible in an easily understandable and searchable format, and users can now view this data in a comprehensive and organized manner. To learn more about the data contained in ECHO, please visit the “About the Data” page at http://echo.epa.gov/about_data.

This is collection of “GET” or query-only web services, that are available through a simple URL http link and provide output in either XML, JSON, or JSONP formats. These services are available through an EPA application server that is exposed to the Internet. The base URL link for all DFR services is http://ofmpub.epa.gov/echo/dfr_rest_services. Each exposed service has at a minimum these 2 input parameters:

output	Signifies the output format of the REST service response. The default value is JSON and JSONP and XML are allowable values. Based on the output type selected, the following MIME types are returned: <ul style="list-style-type: none"> • JSON: application/json • XML: text/xml • JSONP: text/javascript
p_id	The value for p_id can be either the EPA Facility Registry System’s REGISTRY_ID for a facility or the facility identifier from the following EPA Systems: <ul style="list-style-type: none"> • RCRAINFO: HANDLER_ID • AFS: SCSC • ICIS NPDES: NPDES_ID • SDWIS: PWS_ID
callback	Used in conjunction when JSONP is used as the output format. It identifies the javascript function name that all service data to be returned under. It is used to allow cross-site scripting in web browser where the data source, in this case EPA’s ofmpub.epa.gov server may be different from the server providing javascript that processes the data. If JSONP is submitted as the output format and no callback function name is specified then the default value of “callback” is used.

Each service returns data using the following general structure:

- A complex “Results” object which encapsulates the complete service response
- A simple “Message” object, which is the first object provided in the Results object and returns the value of “Success” if the service completes successfully
- Multiple data objects

As an example of the above the following example URL,
http://ofmpub.epa.gov/echo/dfc_facilities.get_dfr?output=XML&p_id=110010321678 which returns the following message format illustrating how all content is returned within the Results object and the Message object:

```
<Results>  
<Message>Success</Message>  
<Permits>(multiple data objects)  
</Results>
```

For each service detailed in this document, the base URL, the purpose, inputs to the service, outputs from the service, and an example that includes actual data, is included.

B. GET DFR

Service Specifications

get_dfr

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_dfr

Purpose

get_dfr is the overall service for the Detailed Facility Report. It returns all of the data displayed in the DFR web report by invoking individual procedures that each return a targeted portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility ID
callback		callback	JSONP callback function name.

Outputs

Object Name	Comments
Permits	See section Get Permits
EnforcementComplianceSummaries	See section Get Enforcement Summary
NAICS	See section Get NAICS Codes
SIC	See section Get SIC Codes
InspectionEnforcementSummary	See section Get Inspection Enforcement Summary
ComplianceHistory	See section Get Compliance History
ComplianceSummary	See section Get Compliance Summary
CWA3YrCompliance	See section Get 3-Year Compliance
CWARNCCompliance	See section Get CWA RNC Compliance
CWAEffluentCompliance	See section Get CWA Effluent Compliance
CWAPSCompliance	See section Get CWA PS Compliance
CWASECompliance	See section Get CWA SE Compliance
CWACSCompliance	See section Get CWA CS Compliance
AirCompliance	See section Get Air Compliance
RCRACompliance	See section Get RCRA Compliance
WaterQuality	See section Get Water Quality
Notices	See section Get Notices
FormalActions	See section Get Formal Actions
ICISFormalActions	See section Get ICIS Formal Actions
TRISHistory	See section Get TRI History
TRIReleases	See section Get TRI Releases
AirQuality	See section Get Air Quality
Demographics	See section Get Demographics
MapOutput	See section Get Map Data

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_dfr?p_id=110000367567&output=JSON

```
{
  "Results": {
    "Message": "Success",
    "Permits": [
      {
        "Statute": "CAA",
        "EPASystem": "EIS 2011",
        "EPARegion": "04",
        "SourceID": "999511",
        "FacilityName": "3M Company",
        "FacilityStreet": "1400 State Docks Rd",
        "FacilityCity": "Decatur",
        "FacilityState": "AL",
        "FacilityZip": "35609",
        "Universe": " ",
        "Areas": null,
        "ExpDate": null,
        "Latitude": "34.641602",
        "Longitude": "-87.041463",
        "IndianCountry": null,
        "SIC": null,
        "NAICS": "325998",
        "FacilityStatus": "Operating"
      },
      {
        "Statute": "CWA",
        "EPASystem": "ICP",
        "EPARegion": "04",
        "SourceID": "ALR16D228",
        "FacilityName": "DECATUR SPECIALTY FILM PLANT",
        "FacilityStreet": "1400 STATE DOCKS RD",
        "FacilityCity": "DECATUR",
        "FacilityState": "AL",
        "FacilityZip": "35601",
        "Universe": " Minor: General Permit Covered Facility ",
        "Areas": null,
        "ExpDate": null,
        "Latitude": "34.6463",
        "Longitude": "-87.0461",
        "IndianCountry": null,
        "SIC": "1541",
        "NAICS": "325613 326113",
        "FacilityStatus": "Terminated"
      },
      {
        "Statute": "CWA",
```

```

"EPASystem":"ICP",
"EPARegion":"04",
"SourceID":"ALR164821",
"FacilityName":"3 M DECATUR INACTIVE LANDFILL",
"FacilityStreet":"3 M COMPANY INCORPORATION",
"FacilityCity":"DECATUR",
"FacilityState":"AL",
"FacilityZip":"35601",
"Universe":" Minor: General Permit Covered Facility ",
"Areas":null,
"ExpDate":null,
"Latitude":"34.641667",
"Longitude":"-87.036111",
"IndianCountry":null,
"SIC":"2899",
"NAICS":null,
"FacilityStatus":"Terminated"
}
, {
"Statute":"CWA",
"EPASystem":"ICP",
"EPARegion":"04",
"SourceID":"ALR107384",
"FacilityName":"3M DECATUR LAND MANAGEMENT PROGRAM",
"FacilityStreet":"1400 STATE DOCKS RD",
"FacilityCity":"DECATUR",
"FacilityState":"AL",
"FacilityZip":"35609-2206",
"Universe":" Minor: General Permit Covered Facility ",
"Areas":null,
"ExpDate":null,
"Latitude":"34.640278",
"Longitude":"-87.038333",
"IndianCountry":null,
"SIC":"1629 2821",
"NAICS":null,
"FacilityStatus":"Effective"
}

```

... see individual sections below to see the additional data returned

C. GET PERMITS

Service Specifications

get_permits

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_permits

Purpose

This procedure obtains data for the following sections of the Detailed Facility Report:

- Facility Information (FRS) in the Facility Summary
- Regulatory Interests in the Facility Summary
- Also Reports in the Facility Summary
- Facility/System Characteristics in Facility/System Characteristics
- Facility Contact Information in Facility/System Characteristics
- Facility SIC Codes in Facility/System Characteristics section
- Facility NAICS Codes in Facility/System Characteristics section

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named `Message` containing either the word “Success” or a detailed error message, and if no error message, a complex object named `Permits` comprised of the following simple objects.

Object Name	Object Type	Definition
Statute	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
EPASystem	Simple	The EPA data system in which the permit and facility records are maintained.
EPARegion	Simple	The EPA region in which the facility is located.
SourceID	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database

		is typically different from the permit number issued to the facility.
FacilityName	Simple	The name of the facility.
FacilityStreet	Simple	The street address of the facility.
FacilityCity	Simple	The city in which the facility is located.
FacilityState	Simple	The state in which the facility is located.
FacilityZip	Simple	The zip code of the area in which the facility is located.
Universe	Simple	<p>This field provides further description on type of permit or record for each data system as follows:</p> <p>For CAA - The program office defines each CAA Source ID and the associated permits as being Federally Reportable or Non-Federally Reportable. Under the CAA, federally reportable sources include majors, synthetic minors, NESHAP Part 61 minors, minors with an unresolved High Priority Violation (HPV), with recent enforcement actions, or included on a Compliance Monitoring Strategy plan. The Clean Air Act requires that delegated agencies and EPA track all federally reportable sources in Air Facility System (AFS).</p> <p>For CWA - Each CWA Source ID or National Pollutant Discharge Elimination System (NPDES) permit is defined by the program office as a Major or Minor discharger.</p> <p>For RCRA - RCRA Source ID or permits for Treatment, Storage and Disposal facilities are identified by TSD, Large Quantity Generators are identified by LQG. Other values include Permit Workload (PMT), Closure Workload (CLO), Small Quantity Generator Universe (SQG), Conditionally-Exempt Small Quantity Generator (CESQG), Post-Closure Workload (POST CL), and Transporters.</p>
Areas	Simple	Clean Air Act stationary source program subpart designation, Clean Water Act-NPDES permit component(s), and/or other Resource Conservation and Recovery Act designations, if any.
ExpDate	Simple	Date on which a given permit is scheduled to expire.
Latitude	Simple	The latitude of the facility or permit holder as maintained in each data system.
Longitude	Simple	The longitude of the facility or permit holder as maintained in each data system.
IndianCountry	Simple	Indicates whether the facility is located in Indian Country
SIC	Simple	Standard Industrial Classification codes
NAICS	Simple	The North American Industry Classification System codes
FacilityStatus	Simple	The Air Program Status is given for each source ID:

		<ul style="list-style-type: none"> • Operating; • Planned; • Under construction; • Temporarily closed; • Permanently closed; and • Seasonal <p>For CWA, the Permit Compliance System (PCS) designates a permitted facility as being Active or Inactive. Under the CWA, all facilities discharging pollutants from a point source (e.g., a pipe) to surface waters must have a NPDES permit. For CWA, ICIS-NPDES designates a permit as Effective, Administratively Continued, Expired, Not Needed, Pending, Retired, or Terminated.</p> <p>RCRA facilities ("sites") are designated as Active or Inactive. The following provides RCRA site activity status definitions and explains site activity status designation</p>
--	--	---

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_permits?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "Permits":[
      {
        "Statute":"CAA",
        "EPASystem":"EIS 2011",
        "EPARegion":"04",
        "SourceID":"999511",
        "FacilityName":"3M Company",
        "FacilityStreet":"1400 State Docks Rd",
        "FacilityCity":"Decatur",
        "FacilityState":"AL",
        "FacilityZip":"35609",
        "Universe":" ",
        "Areas":null,
        "ExpDate":null,
        "Latitude":"34.641602",
        "Longitude":"-87.041463",
        "IndianCountry":null,
        "SIC":null,
        "NAICS":"325998",
        "FacilityStatus":"Operating"
      }
    ]
  }
}
```

```
"Statute":"CAA",
"EPASystem":"AFS",
"EPARegion":"04",
"SourceID":"0110300009",
"FacilityName":"3M COMPANY",
"FacilityStreet":"1400 STATE DOCKS RD",
"FacilityCity":"DECATUR",
"FacilityState":"AL",
"FacilityZip":"356092206",
"Universe":" Major ",
"Areas":null,
"ExpDate":null,
"Latitude":"34.643333",
"Longitude":"-87.041389",
"IndianCountry":null,
"SIC":"2899",
"NAICS":"325998",
"FacilityStatus":"Operating"
}
,{
"Statute":"CAA",
"EPASystem":"GHG 2012",
"EPARegion":"04",
"SourceID":"1004206",
"FacilityName":"3M COMPANY",
"FacilityStreet":"1400 STATE DOCKS RD.",
"FacilityCity":"DECATUR",
"FacilityState":"AL",
"FacilityZip":"35609",
"Universe":" Supplier, Direct Emitter ",
"Areas":null,
"ExpDate":null,
"Latitude":"34.606651",
"Longitude":"-86.982419",
"IndianCountry":null,
"SIC":null,
"NAICS":"325211",
"FacilityStatus":"Active"
}
```

D. GET ENFORCEMENT COMPLIANCE SUMMARY

Service Specifications

get_enforcement_summary

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_enforcement_summary

Purpose

This procedure obtains data for the Enforcement and Compliance Summary in the Facility Summary section of the Detailed Facility Report.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named EnforcementComplianceSummaries comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	EnforcementComplianceSummaries	Complex	
Program	ProgramDates	Simple	see Appendix for definition
StartDate3Yr	ProgramDates	Simple	see Appendix for definition
Startdate5Yr	ProgramDates	Simple	see Appendix for definition
EndDate	ProgramDates	Simple	see Appendix for definition
Summaries	EnforcementComplianceSummaries	Complex	
Statute	Summaries	Simple	The name of the environmental statute associated with each of the permits and identifiers linked to the facility. Only CAA, CWA, and RCRA are displayed in this section.
Inspections	Summaries	Simple	The number of inspections/compliance evaluations that have occurred at the facility, under the corresponding statute, within the designated time period.
LastInspection	Summaries	Simple	The date on which the most

			recent inspection of the facility took place
CurrentStatus	Summaries	Simple	The current status for the facility during the most current quarter: No violation, non-compliance
QtrsInNC	Summaries	Simple	The number of quarters, out of the last twelve quarters, in which the permit or site is considered in non-compliance (NC) status.
QtrsInSNC	Summaries	Simple	The number of quarters, out of the last twelve quarters, in which the permit or site is considered in or in Significant Non-compliance (SNC) status.
InformalActions	Summaries	Simple	The number of informal enforcement actions that have been taken against the facility, under the corresponding statute, within the five year time period.
FormalActions	Summaries	Simple	The number of formal enforcement actions that have been taken against the facility, under the corresponding statute, within the five year time period.
Cases	Summaries	Simple	The number of EPA enforcement cases that have been brought against the facility, under the corresponding statute, within the designated time period.
TotalPenalties	Summaries	Simple	The total dollar amount of either assessed or final penalties within the five year time period.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_enforcement_summary?p_id=110000367567

```
{
"Results":{
"Message":"Success",
"EnforcementComplianceSummaries":{
"ProgramDates":[
{
"Program":"CAA",
```

```

"StartDate3Yr":"01-JAN-11",
"StartDate5Yr":"01-JAN-09",
"EndDate":"31-DEC-13"
}
,{
"Program":"CERCLA",
"StartDate3Yr":null,
"StartDate5Yr":null,
"EndDate":null
}
,{
"Program":"CWA",
"StartDate3Yr":"01-OCT-10",
"StartDate5Yr":"01-OCT-08",
"EndDate":"30-SEP-13"
}
,{
"Program":"EPCRA",
"StartDate3Yr":null,
"StartDate5Yr":null,
"EndDate":null
}
,{
"Program":"RCRA",
"StartDate3Yr":"01-JAN-11",
"StartDate5Yr":"01-JAN-09",
"EndDate":"31-DEC-13"
}
]
,
"Summaries":[
{
"Statute":"CAA",
"Inspections":"6",
"LastInspection":"30-SEP-13",
"CurrentStatus":"Significant Violation",
"QtrsInNC":"3",
"QtrsInSNC":"3",
"InformalActions":"2",
"FormalActions":"2",
"Cases":null,
"TotalPenalties":"$26,000"
}
,{
"Statute":"CERCLA",
"Inspections":null,
"LastInspection":null,
"CurrentStatus":null,
"QtrsInNC":null,
"QtrsInSNC":null,
"InformalActions":null,

```

```
"FormalActions": "1",
"Cases": null,
"TotalPenalties": "$1,310"
},
{
  "Statute": "CWA",
  "Inspections": "8",
  "LastInspection": "30-APR-13",
  "CurrentStatus": "No Violation",
  "QtrsInNC": "6",
  "QtrsInSNC": "0",
  "InformalActions": null,
  "FormalActions": null,
  "Cases": null,
  "TotalPenalties": null
},
{
  "Statute": "EPCRA",
  "Inspections": "1",
  "LastInspection": "09-AUG-11",
  "CurrentStatus": null,
  "QtrsInNC": null,
  "QtrsInSNC": null,
  "InformalActions": null,
  "FormalActions": "1",
  "Cases": null,
  "TotalPenalties": "$0"
},
{
  "Statute": "RCRA",
  "Inspections": "5",
  "LastInspection": "24-JUL-13",
  "CurrentStatus": "No Violation",
  "QtrsInNC": "1",
  "QtrsInSNC": "0",
  "InformalActions": null,
  "FormalActions": null,
  "Cases": null,
  "TotalPenalties": null
}
```

E. GET NAICS CODES

Service Specifications

get_naics

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_naics

Purpose

This procedure obtains data for the Facility NAICS Codes section in Facility/System Characteristics of the Detailed Facility Report.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named NAICS comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Sources	NAICS	Complex	
NAICSCodes	Sources	Complex	
SourceID	NAICSCodes	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
EPASystem	NAICSCodes	Simple	The EPA data system in which permit and facility records are kept.
NAICSCode	NAICSCodes	Simple	The North American Industry Classification System (NAICS) code.
NAICSDesc			Industries associated to the NAICS code.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_naics?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "NAICS":{
      "Sources":[
        {
          "NAICSCodes":[
            {
              "SourceID":"0110300009",
              "EPASystem":"AFS",
              "NAICSCode":"325998",
              "NAICSDesc":"All Other Miscellaneous Chemical Product And Preparation Manufacturing"
            }
          ]
        }
      ],
      {
        "NAICSCodes":[
          {
            "SourceID":"1004206",
            "EPASystem":"GHG 2012",
            "NAICSCode":"325211",
            "NAICSDesc":"Plastics Material And Resin Manufacturing"
          }
        ]
      }
    }
  }
}
```

F. GET SIC CODES

Service Specifications

get_sic_codes

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_sic_codes

Purpose

This procedure obtains data for the Facility SIC Codes section in Facility/System Characteristics of the Detailed Facility Report.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named SIC comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Sources	SIC	Complex	
SICCodes	Sources	Complex	
SourceID	SICCodes	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
EPASystem	SICCodes	Simple	The EPA data system in which permit and facility records are kept.
SICCode	SICCodes	Simple	The Standard Industrial Classification codes applicable to the facility.
SICDesc	SICCodes	Simple	The industry classification of the SIC.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_sic_codes?p_id=110000367567 {

```
"Results":{
  "Message":"Success",
  "SIC":{
    "Sources":[
      {
        "SICCodes":[
          {
            "SourceID":"0110300009",
            "EPASystem":"AFS",
            "SICCode":"2899",
            "SICDesc":"Chemical Preparations"
          }
        ]
      }
    ],
    {
      "SICCodes":[
        {
          "SourceID":"35602MCMPNSTATE",
          "EPASystem":"TRI",
          "SICCode":"2821",
          "SICDesc":"Plastics Materials And Resins"
        }
      ],
      {
        "SourceID":"35602MCMPNSTATE",
        "EPASystem":"TRI",
        "SICCode":"2822",
        "SICDesc":"Synthetic Rubber"
      }
    ]
  }
}
```

G. GET INSPECTION ENFORCEMENT SUMMARY

Service Specifications

get_inspections

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_inspections

Purpose

This procedure obtains data for Enforcement and Compliance Summary Section of the Detailed Facility report.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named InspectionEnforcementSummary comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	InspectionEnforcementSummary	Complex	see Appendix for definition
Source	InspectionEnforcementSummary	Complex	
Statute	Source	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
EPASystem	Source	Simple	The EPA data system in which the permit and facility records are maintained.
SourceID	Source	Simple	An identifier which is a unique value for each record /

			permit / site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
InspectionCount	Source	Simple	The total number of inspections pertaining to compliance of the designated statute.
DateLastInspection	Source	Simple	The date on which the most recent inspection of the facility took place.
FormalEnfActCount	Source	Simple	The number of formal enforcement actions that have been taken against the facility, under the corresponding statute, within the five year time period.
TotalPenalties	Source	Simple	The total dollar amount of either assessed or final penalties within the five year time period.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_inspections?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "InspectionEnforcementSummary":{
      "ProgramDates":[
        {
          "Program":"CAA",
          "StartDate":"01-JAN-09",
          "EndDate":"31-DEC-13"
        }
      ],
      {
        "Program":"CERCLA",
        "StartDate":null,
        "EndDate":null
      }
    },
    {
      "Program":"CWA",
      "StartDate":"01-OCT-08",
      "EndDate":"30-SEP-13"
    }
  }
}
```

```
,{
  "Program":"EPCRA",
  "StartDate":null,
  "EndDate":null
},
{
  "Program":"RCRA",
  "StartDate":"01-JAN-09",
  "EndDate":"31-DEC-13"
}
]
,
"Source":[
  {
    "Statute":"CAA",
    "EPASystem":"AFS",
    "SourceID":"0110300009",
    "InspectionCount":"5",
    "DateLastInspection":"09/30/2013",
    "FormalEnfActCount":"2",
    "TotalPenalties":"26000"
  },
  {
    "Statute":"CERCLA",
    "EPASystem":"ICIS",
    "SourceID":"04-2010-2004",
    "InspectionCount":null,
    "DateLastInspection":null,
    "FormalEnfActCount":"1",
    "TotalPenalties":"1310"
  }
]
```

H. GET COMPLIANCE HISTORY

Service Specifications

get_compliance_history

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_compliance_history

Purpose

This procedure obtains data for the Compliance Monitoring History (5 years) in the Enforcement and Compliance Section of the Detailed Facility report.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named ComplianceHistory comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	ComplianceHistory	Complex	see Appendix for definition
Inspection	ComplianceHistory	Complex	
Statute	Inspection	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
SourceID	Inspection	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
EPASystem	Inspection	Simple	The EPA data system in which the permit and facility records are

			maintained.
InspectionType	Inspection	Simple	A description of the type of inspection undertaken.
LeadAgency	Inspection	Simple	The lead agency (e.g., EPA, State) conducting the inspection.
Date	Inspection	Simple	The date of the listed inspection.
CMSFlag	Inspection	Simple	Indicates whether a Corrective Measure Study has been recommended.
Finding	Inspection	Simple	For CAA, includes results of source or performance stack tests or Title V certification review results when applicable; for CWA and RCRA, includes whether violations or compliance issues were found during an inspection, if entered into an EPA system.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_compliance_history?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "ComplianceHistory":{
      "ProgramDates":[
        {
          "Program":"CAA",
          "StartDate":"01-JAN-09",
          "EndDate":"31-DEC-13"
        }
      ],
      {
        "Program":"CAA / Â§112[R][7]",
        "StartDate":null,
        "EndDate":null
      }
    ],
    {
      "Program":"CWA",
      "StartDate":"01-OCT-08",
      "EndDate":"30-SEP-13"
    }
  ],
  {
    "Program":"EPCRA / Â§313",
    "StartDate":null,
    "EndDate":null
  }
],
  {
    "Program":"RCRA",
    "StartDate":"01-JAN-09",
    "EndDate":"31-DEC-13"
  }
}
```



```

}
]
,
"Inspection":[
{
"Statute":"RCRA",
"SourceID":"ALD004023164",
"EPASystem":"RCR",
"InspectionType":"COMPLIANCE EVALUATION INSPECTION ON-SITE",
"LeadAgency":"EPA",
"Date":"11/17/2009",
"CMSFlag":"Y",
"Finding":"Undetermined, Agency May Still be Determining"
}
,{
"Statute":"RCRA",
"SourceID":"ALD004023164",
"EPASystem":"RCR",
"InspectionType":"FOCUSED COMPLIANCE INSPECTION",
"LeadAgency":"State",
"Date":"11/17/2009",
"CMSFlag":"Y",
"Finding":"Undetermined, Agency May Still be Determining"
}
,{
"Statute":"RCRA",
"SourceID":"ALD004023164",
"EPASystem":"RCR",
"InspectionType":"FINANCIAL RECORD REVIEW",
"LeadAgency":"EPA",
"Date":"06/22/2010",
"CMSFlag":"Y",
"Finding":"No Violations Or Compliance Issues Were Found"
}
,{
"Statute":"RCRA",
"SourceID":"ALD004023164",
"EPASystem":"RCR",
"InspectionType":"COMPLIANCE EVALUATION INSPECTION ON-SITE",
"LeadAgency":"State",
"Date":"07/25/2012",
"CMSFlag":"Y",
"Finding":"Violations Or Compliance Issues Were Found"
}
,{
"Statute":"RCRA",
"SourceID":"ALD004023164",
"EPASystem":"RCR",
"InspectionType":"FINANCIAL RECORD REVIEW",
"LeadAgency":"State",
"Date":"07/24/2013",

```

```

"CMSFlag":"Y",
"Finding":"No Violations Or Compliance Issues Were Found"
}
,{
"Statute":"CAA",
"SourceID":"0110300009",
"EPASystem":"AFS",
"InspectionType":"STATE REQ (O/O COND) STACK TEST/NOT OBSV BUT REVWD",
"LeadAgency":"State",
"Date":"02/02/2010",
"CMSFlag":"N",
"Finding":"Findings: STACK TEST PASSED; Pollutant: VOC;"
}
,{
"Statute":"CAA",
"SourceID":"0110300009",
"EPASystem":"AFS",
"InspectionType":"TITLE V COMPLIANCE CERTIFICATION REVIEW BY STATE",
"LeadAgency":"State",
"Date":"06/09/2010",
"CMSFlag":"N",
"Finding":"Findings: IN COMPLIANCE;"
}
,{
"Statute":"CAA",
"SourceID":"0110300009",
"EPASystem":"AFS",
"InspectionType":"STATE REQ (O/O COND) STACK TEST/NOT OBSV BUT REVWD",
"LeadAgency":"State",
"Date":"06/21/2011",
"CMSFlag":"N",
"Finding":"Findings: STACK TEST PASSED; Pollutant: NO2;"
}
,{
"Statute":"CAA",
"SourceID":"0110300009",
"EPASystem":"AFS",
"InspectionType":"OWNER/OPERATOR-CONDUCTED SOURCE TEST",
"LeadAgency":"State",
"Date":"02/02/2010",
"CMSFlag":"N",
"Finding":"Findings: STACK TEST PASSED; Pollutant: VOC;"
}
,{
"Statute":"CAA",
"SourceID":"0110300009",
"EPASystem":"AFS",
"InspectionType":"OWNER/OPERATOR-CONDUCTED SOURCE TEST",
"LeadAgency":"State",
"Date":"02/05/2013",
"CMSFlag":"N",

```

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```
"Finding": "Findings: STACK TEST PASSED; Pollutant: VOC;"  
}
```

I. GET COMPLIANCE SUMMARY

Service Specifications

get_compliance_summary

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_compliance_summary

Purpose

This procedure obtains data for Compliance Summary Data in the Enforcement and Compliance Section of the Detailed Facility report.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named ComplianceSummary comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	ComplianceSummary	Complex	see Appendix for definition
Source	ComplianceSummary	Complex	
Statute	Source	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
SourceID	Source	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number

			issued to the facility.
CurrentSNC	Source	Simple	The current Significant Non-compliance (SNC) or High Priority Violator (HPV) status for the facility during the most current quarter. SNC is used for RCRA and CWA, and HPV is used for CAA. Each program has its own specific criteria for making this determination. The value of "Yes" indicates the facility is in SNC or HPV for the permit or site in question and may pose a more severe level of environmental threat. The value of "No" indicates the permit or site is not considered in SNC or HPV. If the facility is Non-Federally Reportable within AFS or if it is classified as minor within PCS, the field reads "N/A". The value of N/A in this field indicates Not Applicable because compliance data for these facilities are not required to be reported to the national program database.
Description	Source	Simple	The text description for the event that results in the permit or site being in Significant Non-compliance (SNC) or in High Priority Violation (HPV).
CurrentAsOf	Source	Simple	The most recent date or calendar year quarter of record maintained in the data system for which the Current SNC/HPV status applies. A quarter could be any of the following 3-month periods: January-March, April-June, July-September, or October-December.
QtrsInNC	Source	Simple	The number of quarters, out of the last twelve quarters, in which the permit or site is considered either with violations, in non-compliance (NC) status, or in Significant Non-compliance (SNC) or High Priority Violation (HPV) status.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_compliance_summary?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "ComplianceSummary":{
      "ProgramDates":[
        {
          "Program":"CAA",
          "StartDate":"01-JAN-11",
          "EndDate":"31-DEC-13"
        }
      ],
      {
          "Program":"CWA",
          "StartDate":"01-OCT-10",
          "EndDate":"30-SEP-13"
        }
      ],
      {
          "Program":"RCRA",
          "StartDate":"01-JAN-11",
          "EndDate":"31-DEC-13"
        }
      ]
    },
    "Source":[
      {
        "Statute":"RCRA",
        "SourceID":"ALD004023164",
        "CurrentSNC":"No",
        "Description":null,
        "CurrentAsOf":"06/22/2013",
        "QtrsInNC":"1"
      }
    ],
    {
        "Statute":"CAA",
        "SourceID":"0110300009",
        "CurrentSNC":"Yes",
        "Description":"VIOLATION UNADDRESSED; STATE/LOCAL HAS LEAD ENFORCEMENT",
        "CurrentAsOf":"06/22/2013",
        "QtrsInNC":"5"
      }
    ],
    {
        "Statute":"CWA",
        "SourceID":"ALR107384",
        "CurrentSNC":null,
        "Description":null,
        "CurrentAsOf":"09/30/2013",
        "QtrsInNC":"0"
      }
    ],
    {

```

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```
"Statute":"CWA",  
"SourceID":"AL0000205",  
"CurrentSNC":null,  
"Description":null,  
"CurrentAsOf":"09/30/2013",  
"QtrsInNC":"6"  
}
```

J. GET 3-YEAR COMPLIANCE

Service Specifications

get_cwa_3yr_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_3yr_compliance

Purpose

This procedure obtains data for the CWA Facility-Level Status section located in the Three Year Compliance Status by Quarter portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named CWA3YrCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	CWA3YrCompliance	Complex	See Appendix for definition
Sources	CWA3YrCompliance	Complex	
SourceID	Sources	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Qtr1 Status through Qtr12 status	Sources	Complex	Status of the facility for the designated quarter. See values in table below.

Table of CWA Facility Status Definitions

Status	Definition
In Viol	Facility is in violation
No Viol	No violation found
Unk	Unknown status
SNC/Cat 1	SNC/Category I violation found

Example

http://ofmpub.epa.gov/echo/dfrestservices/get_cwa_3yr_compliance?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "CWA3YrCompliance":{
      "Header":{
        "Qtr1Start":"01-OCT-10",
        "Qtr1End":"31-DEC-10",
        "Qtr2Start":"01-JAN-11",
        "Qtr2End":"31-MAR-11",
        "Qtr3Start":"01-APR-11",
        "Qtr3End":"30-JUN-11",
        "Qtr4Start":"01-JUL-11",
        "Qtr4End":"30-SEP-11",
        "Qtr5Start":"01-OCT-11",
        "Qtr5End":"31-DEC-11",
        "Qtr6Start":"01-JAN-12",
        "Qtr6End":"31-MAR-12",
        "Qtr7Start":"01-APR-12",
        "Qtr7End":"30-JUN-12",
        "Qtr8Start":"01-JUL-12",
        "Qtr8End":"30-SEP-12",
        "Qtr9Start":"01-OCT-12",
        "Qtr9End":"31-DEC-12",
        "Qtr10Start":"01-JAN-13",
        "Qtr10End":"31-MAR-13",
        "Qtr11Start":"01-APR-13",
        "Qtr11End":"30-JUN-13",
        "Qtr12Start":"01-JUL-13",
        "Qtr12End":"30-SEP-13"
      }
    },
    "Sources":[
      {
        "Status":[
          {
            "SourceID":"AL0000205",
            "Qtr1Status":"In Viol",
            "Qtr2Status":"In Viol",
            "Qtr3Status":"In Viol",
            "Qtr4Status":"In Viol",
```

```
"Qtr5Status":"No Viol",
"Qtr6Status":"No Viol",
"Qtr7Status":"No Viol",
"Qtr8Status":"In Viol",
"Qtr9Status":"No Viol",
"Qtr10Status":"In Viol",
"Qtr11Status":"No Viol",
"Qtr12Status":"No Viol"
}
]
}
,{
"Status":[
{
"SourceID":"ALR107384",
"Qtr1Status":"No Viol",
"Qtr2Status":"No Viol",
"Qtr3Status":"No Viol",
"Qtr4Status":"No Viol",
"Qtr5Status":"No Viol",
"Qtr6Status":"No Viol",
"Qtr7Status":"No Viol",
"Qtr8Status":"No Viol",
"Qtr9Status":"No Viol",
"Qtr10Status":"No Viol",
"Qtr11Status":"No Viol",
"Qtr12Status":"No Viol"
}
]
}
,{
"Status":[
{
"SourceID":"ALR109172",
"Qtr1Status":"No Viol",
"Qtr2Status":"No Viol",
"Qtr3Status":"No Viol",
"Qtr4Status":"No Viol",
"Qtr5Status":"No Viol",
"Qtr6Status":"No Viol",
"Qtr7Status":"No Viol",
"Qtr8Status":"No Viol",
"Qtr9Status":"No Viol",
"Qtr10Status":"No Viol",
"Qtr11Status":"No Viol",
"Qtr12Status":"No Viol"
}
]
```

K. GET CWA RNC COMPLIANCE

Service Specifications

get_cwa_rnc_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_rnc_compliance

Purpose

This procedure obtains data for the CWA SNC/RNC History section located in the Three Year Compliance Status by Quarter portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named CWARNCCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	CWARNCCompliance	Complex	see Appendix for definition
Sources	CWARNCCompliance	Complex	
SourceID	Sources	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Qtr1 Status through Qtr12 status	Sources	Complex	Status of the facility for the designated quarter. See valid values in table below.

Table of CWA RNC Status Definitions

Status	Definition
S	SNC/Category I - an enforcement action has been issued, and the facility is not meeting its compliance schedule
E	SNC/Category I - effluent violations of monthly average limits (Technical Review Criteria and chronic)
X	SNC/Category I - effluent violations of non-monthly average limits (Technical Review Criteria and chronic)
T	SNC/Category I - compliance schedule reporting violation
D	SNC/Category I - reporting violation - non-receipt of DMR
N	RNC/Category II - reportable non-compliance
P	Resolved Pending - an enforcement action has been issued, and facility compliance with the action is pending final completion
R	Resolved - the facility has returned to compliance with its permit conditions, either with or without issuance of an enforcement action
C	Not considered in RNC/SNC based on manual review of data by state or EPA region. This manual override status is also indicated by a superscripted "m".
Blank	Not considered in RNC/SNC
N/A	EPA's data system is not able to determine the facility-level compliance status based upon the information available. This information may be available from a state database.

SNC/Category I categories are shown in **RED**, RNC/Category II categories are shown in **ORANGE**, On Schedule categories are shown in **BLUE** (these facilities are considered in compliance), and Compliance categories are shown in **GREEN**.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_rnc_compliance?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "CWARNCCompliance":{
      "Header":{
        "Qtr1Start":"01-OCT-10",
        "Qtr1End":"31-DEC-10",
        "Qtr2Start":"01-JAN-11",
        "Qtr2End":"31-MAR-11",
        "Qtr3Start":"01-APR-11",
```

```

"Qtr3End": "30-JUN-11",
"Qtr4Start": "01-JUL-11",
"Qtr4End": "30-SEP-11",
"Qtr5Start": "01-OCT-11",
"Qtr5End": "31-DEC-11",
"Qtr6Start": "01-JAN-12",
"Qtr6End": "31-MAR-12",
"Qtr7Start": "01-APR-12",
"Qtr7End": "30-JUN-12",
"Qtr8Start": "01-JUL-12",
"Qtr8End": "30-SEP-12",
"Qtr9Start": "01-OCT-12",
"Qtr9End": "31-DEC-12",
"Qtr10Start": "01-JAN-13",
"Qtr10End": "31-MAR-13",
"Qtr11Start": "01-APR-13",
"Qtr11End": "30-JUN-13",
"Qtr12Start": "01-JUL-13",
"Qtr12End": "30-SEP-13"
}
,
"Sources": [
{
"Status": [
{
"SourceID": "AL0000205",
"Qtr1Status": "C(Manual)",
"Qtr2Status": "C(Manual)",
"Qtr3Status": "C(Manual)",
"Qtr4Status": "R(Resolvd)",
"Qtr5Status": null,
"Qtr6Status": null,
"Qtr7Status": null,
"Qtr8Status": "V(NonRNCV)",
"Qtr9Status": null,
"Qtr10Status": "R(Resolvd)",
"Qtr11Status": null,
"Qtr12Status": null
}
]
}
, {
"Status": [
{
"SourceID": "ALR107384",
"Qtr1Status": null,
"Qtr2Status": null,
"Qtr3Status": null,
"Qtr4Status": null,
"Qtr5Status": null,
"Qtr6Status": null,

```

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```
"Qtr7Status":null,  
"Qtr8Status":null,  
"Qtr9Status":null,  
"Qtr10Status":null,  
"Qtr11Status":null,  
"Qtr12Status":null  
}
```

L. GET CWA EFFLUENT COMPLIANCE

Service Specifications

get_cwa_eff_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_eff_compliance

Purpose

This procedure obtains data for the CWA Pollutant Discharge section located in the Three Year Compliance Status by Quarter portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named CWAEffluentCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	CWAEffluentCompliance	Complex	see Appendix for definition
Sources	CWAEffluentCompliance	Complex	
Parameters	Sources	Complex	
SourceID	Parameters	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
ParameterName	Parameters	Simple	
DischargePoint	Parameters	Simple	
MeasurementType	Parameters	Simple	

Qtr1Status	Parameters	Simple	See table below.
Qtr1Value	Parameters	Simple	Effluent violations are indicated by displaying the highest percentage by which the permit limit was exceeded for the quarter.
Qtr Status and Qtr Value repeat for quarters 2 through 12	Parameters	Simple	

Table of CWA Effluent Violation Status Definitions

Numbers in the Value columns indicate the highest percentage by which the permit limit was exceeded for the quarter.

Status	Definition
null	normal
R	Resolved SNC (displayed in red)
S	Unresolved SNC

Example

http://ofmpub.epa.gov/echo/dfrestservices/getcwaeffcompliance?p_id=MS0056740

```
{
  "Results":{
    "Message":"Success",
    "CWAEffluentCompliance":{
      "Header":{
        "Qtr1Start":"01-OCT-10",
        "Qtr1End":"31-DEC-10",
        "Qtr2Start":"01-JAN-11",
        "Qtr2End":"31-MAR-11",
        "Qtr3Start":"01-APR-11",
        "Qtr3End":"30-JUN-11",
        "Qtr4Start":"01-JUL-11",
        "Qtr4End":"30-SEP-11",
        "Qtr5Start":"01-OCT-11",
        "Qtr5End":"31-DEC-11",
        "Qtr6Start":"01-JAN-12",
        "Qtr6End":"31-MAR-12",
        "Qtr7Start":"01-APR-12",
        "Qtr7End":"30-JUN-12",
        "Qtr8Start":"01-JUL-12",
        "Qtr8End":"30-SEP-12",
        "Qtr9Start":"01-OCT-12",
        "Qtr9End":"31-DEC-12",
        "Qtr10Start":"01-JAN-13",
        "Qtr10End":"31-MAR-13",
        "Qtr11Start":"01-APR-13",
```



```

"Qtr11End": "30-JUN-13",
"Qtr12Start": "01-JUL-13",
"Qtr12End": "30-SEP-13"
}
,
"Sources": [
{
"Parameters": [
{
"SourceID": "MS0056740",
"ParameterName": "Oil & Grease",
"DischargePoint": "001",
"MeasurementType": "Mthly",
"Qtr1Status": null,
"Qtr1Value": null,
"Qtr2Status": null,
"Qtr2Value": null,
"Qtr3Status": "R",
"Qtr3Value": "74",
"Qtr4Status": "R",
"Qtr4Value": "184",
"Qtr5Status": "R",
"Qtr5Value": "115",
"Qtr6Status": "R",
"Qtr6Value": "820",
"Qtr7Status": null,
"Qtr7Value": null,
"Qtr8Status": null,
"Qtr8Value": null,
"Qtr9Status": null,
"Qtr9Value": "61",
"Qtr10Status": "S",
"Qtr10Value": "25",
"Qtr11Status": "S",
"Qtr11Value": "45",
"Qtr12Status": "S",
"Qtr12Value": "66"
}
}, {
"SourceID": "MS0056740",
"ParameterName": "Oil & Grease",
"DischargePoint": "001",
"MeasurementType": "NMth",
"Qtr1Status": null,
"Qtr1Value": null,
"Qtr2Status": null,
"Qtr2Value": null,
"Qtr3Status": null,
"Qtr3Value": "83",
"Qtr4Status": null,
"Qtr4Value": "89",

```

```
"Qtr5Status":null,  
"Qtr5Value":"43",  
"Qtr6Status":null,  
"Qtr6Value":"513",  
"Qtr7Status":null,  
"Qtr7Value":null,  
"Qtr8Status":null,  
"Qtr8Value":null,  
"Qtr9Status":null,  
"Qtr9Value":"7",  
"Qtr10Status":null,  
"Qtr10Value":null,  
"Qtr11Status":null,  
"Qtr11Value":null,  
"Qtr12Status":null,  
"Qtr12Value":"11"  
}
```

M. GET CWA PS COMPLIANCE

Service Specifications

get_cwa_ps_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_ps_compliance

Purpose

This procedure obtains data for the CWA Permit Schedule Violations section located in the Three Year Compliance Status by Quarter portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named CWAPSCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	CWAPSCompliance	Complex	See Appendix for definition
Sources	CWAPSCompliance	Complex	
Violations	Sources	Complex	See Appendix for definition

Table of Permit Schedule Violation Values

Value	Definition
Date	Violations are listed with the beginning and return-to-compliance dates across the twelve quarters. A right arrow with no closing date means that the violation has not been resolved and continues to be active in the data system. If the violation started before the last three years of data and continues into the last three years, the beginning date is listed in QTR1.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_ps_compliance?p_id=110004404626

```
{
  "Results":{
    "Message":"Success",
    "CWAPSCompliance":{
      "Header":{
        "Qtr1Start":"01-OCT-10",
        "Qtr1End":"31-DEC-10",
        "Qtr2Start":"01-JAN-11",
        "Qtr2End":"31-MAR-11",
        "Qtr3Start":"01-APR-11",
        "Qtr3End":"30-JUN-11",
        "Qtr4Start":"01-JUL-11",
        "Qtr4End":"30-SEP-11",
        "Qtr5Start":"01-OCT-11",
        "Qtr5End":"31-DEC-11",
        "Qtr6Start":"01-JAN-12",
        "Qtr6End":"31-MAR-12",
        "Qtr7Start":"01-APR-12",
        "Qtr7End":"30-JUN-12",
        "Qtr8Start":"01-JUL-12",
        "Qtr8End":"30-SEP-12",
        "Qtr9Start":"01-OCT-12",
        "Qtr9End":"31-DEC-12",
        "Qtr10Start":"01-JAN-13",
        "Qtr10End":"31-MAR-13",
        "Qtr11Start":"01-APR-13",
        "Qtr11End":"30-JUN-13",
        "Qtr12Start":"01-JUL-13",
        "Qtr12End":"30-SEP-13"
      }
    },
    "Sources":[
      {
        "Violations":[
          {
            "SourceID":"NYA001418",
            "ViolationDesc":"Schedule Event achieved late but reported: CAFO Annual Report",
            "NPDESViolationId":"3000285698",
            "Qtr1Status":null,
            "Qtr1Value":null,
            "Qtr2Status":null,
            "Qtr2Value":null,
            "Qtr3Status":null,
            "Qtr3Value":null,
            "Qtr4Status":null,
            "Qtr4Value":null,
            "Qtr5Status":null,
            "Qtr5Value":null,

```

```
"Qtr6Status":null,  
"Qtr6Value":"03-31-12",  
"Qtr7Status":null,  
"Qtr7Value":"04-02-12",  
"Qtr8Status":null,  
"Qtr8Value":null,  
"Qtr9Status":null,  
"Qtr9Value":null,  
"Qtr10Status":null,  
"Qtr10Value":null,  
"Qtr11Status":null,  
"Qtr11Value":null,  
"Qtr12Status":null,  
"Qtr12Value":null  
}
```

N. GET CWA SE COMPLIANCE

Service Specifications

get_cwa_se_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_se_compliance

Purpose

This procedure obtains data for the CWA Single Event Status section located in the Three Year Compliance Status by Quarter portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named CWASECompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	CWASECompliance	Complex	See Appendix for definition
Sources	CWASECompliance	Complex	
Violations	Sources	Complex	See Appendix for definition

Table of Single Event Values

Value	Definition
Date	Violations are listed with the beginning and return-to-compliance dates across the twelve quarters. A right arrow with no closing date means that the violation has not been resolved and continues to be active in the data system. If the violation started before the last three years of data and continues into the last three years, the beginning date is listed in QTR1.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_se_compliance?p_id=110000730308

```
{
  "Results":{
    "Message":"Success",
    "CWASECompliance":{
      "Header":{
        "Qtr1Start":"01-OCT-10",
        "Qtr1End":"31-DEC-10",
        "Qtr2Start":"01-JAN-11",
        "Qtr2End":"31-MAR-11",
        "Qtr3Start":"01-APR-11",
        "Qtr3End":"30-JUN-11",
        "Qtr4Start":"01-JUL-11",
        "Qtr4End":"30-SEP-11",
        "Qtr5Start":"01-OCT-11",
        "Qtr5End":"31-DEC-11",
        "Qtr6Start":"01-JAN-12",
        "Qtr6End":"31-MAR-12",
        "Qtr7Start":"01-APR-12",
        "Qtr7End":"30-JUN-12",
        "Qtr8Start":"01-JUL-12",
        "Qtr8End":"30-SEP-12",
        "Qtr9Start":"01-OCT-12",
        "Qtr9End":"31-DEC-12",
        "Qtr10Start":"01-JAN-13",
        "Qtr10End":"31-MAR-13",
        "Qtr11Start":"01-APR-13",
        "Qtr11End":"30-JUN-13",
        "Qtr12Start":"01-JUL-13",
        "Qtr12End":"30-SEP-13"
      }
    },
    "Sources":[
      {
        "Violations":[
          {
            "SourceID":"AR0046566",
            "ViolationDesc":"Management Practice Violations - Failure to Maintain Records",
            "NPDESViolationId":"1200004204",
            "Qtr1Status":null,
            "Qtr1Value":"11-17-05",
            "Qtr2Status":null,
            "Qtr2Value":">>>>>>>>>",
            "Qtr3Status":null,
            "Qtr3Value":"05-25-11",
            "Qtr4Status":null,
            "Qtr4Value":null,
            "Qtr5Status":null,
            "Qtr5Value":null,

```

```
"Qtr6Status":null,
"Qtr6Value":null,
"Qtr7Status":null,
"Qtr7Value":null,
"Qtr8Status":null,
"Qtr8Value":null,
"Qtr9Status":null,
"Qtr9Value":null,
"Qtr10Status":null,
"Qtr10Value":null,
"Qtr11Status":null,
"Qtr11Value":null,
"Qtr12Status":null,
"Qtr12Value":null
}
,{
"SourceID":"AR0046566",
"ViolationDesc":"Management Practice Violations - Improper Operation and Maintenance",
"NPDESViolationId":"1200004191",
"Qtr1Status":null,
"Qtr1Value":"10-12-04",
"Qtr2Status":null,
"Qtr2Value":">>>>>>>>>>>",
"Qtr3Status":null,
"Qtr3Value":"05-25-11",
"Qtr4Status":null,
"Qtr4Value":null,
"Qtr5Status":null,
"Qtr5Value":null,
"Qtr6Status":null,
"Qtr6Value":null,
"Qtr7Status":null,
"Qtr7Value":null,
"Qtr8Status":null,
"Qtr8Value":null,
"Qtr9Status":null,
"Qtr9Value":null,
"Qtr10Status":null,
"Qtr10Value":null,
"Qtr11Status":null,
"Qtr11Value":null,
"Qtr12Status":null,
"Qtr12Value":null
}
,{
"SourceID":"AR0046566",
"ViolationDesc":"Management Practice Violations - Improper Operation and Maintenance",
"NPDESViolationId":"1200004202",
"Qtr1Status":null,
"Qtr1Value":"08-31-06",
"Qtr2Status":null,
```



```
"Qtr2Value": ">>>>>>>>>>",
"Qtr3Status": null,
"Qtr3Value": "05-25-11",
"Qtr4Status": null,
"Qtr4Value": null,
"Qtr5Status": null,
"Qtr5Value": null,
"Qtr6Status": null,
"Qtr6Value": null,
"Qtr7Status": null,
"Qtr7Value": null,
"Qtr8Status": null,
"Qtr8Value": null,
"Qtr9Status": null,
"Qtr9Value": null,
"Qtr10Status": null,
"Qtr10Value": null,
"Qtr11Status": null,
"Qtr11Value": null,
"Qtr12Status": null,
"Qtr12Value": null
}
,{
"SourceID": "AR0046566",
"ViolationDesc": "Management Practice Violations - Improper Operation and Maintenance",
"NPDESViolationId": "1200004205",
"Qtr1Status": null,
"Qtr1Value": "11-17-05",
"Qtr2Status": null,
"Qtr2Value": ">>>>>>>>>>",
"Qtr3Status": null,
"Qtr3Value": "05-25-11",
"Qtr4Status": null,
"Qtr4Value": null,
"Qtr5Status": null,
"Qtr5Value": null,
"Qtr6Status": null,
"Qtr6Value": null,
"Qtr7Status": null,
"Qtr7Value": null,
"Qtr8Status": null,
"Qtr8Value": null,
"Qtr9Status": null,
"Qtr9Value": null,
"Qtr10Status": null,
"Qtr10Value": null,
"Qtr11Status": null,
"Qtr11Value": null,
"Qtr12Status": null,
"Qtr12Value": null
}
```

ECHO

ECHO DFR REST Services

Version 1.0

Date: 1/14/2014

< end of listing not included >

O.GET CWA CS COMPLIANCE

Service Specifications

get_cwa_cs_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_cs_compliance

Purpose

This procedure obtains data for the CWA Compliance Schedule Status section located in the Three Year Compliance Status by Quarter portion of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named CWACSCCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	CWACSCCompliance	Complex	See Appendix for definition
Sources	CWACSCCompliance	Complex	
Violations	Sources	Complex	See Appendix for definition

Table of Compliance Schedule Values

Value	Definition
Date	Violations are listed with the beginning and return-to-compliance dates across the twelve quarters. A right arrow with no closing date means that the violation has not been resolved and continues to be active in the data system. If the violation started before the last three years of data and continues into the last three years, the beginning date is listed in QTR1.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_cwa_cs_compliance?p_id=110000730308

```
{
  "Results":{
    "Message":"Success",
    "CWACSCompliance":{
      "Header":{
        "Qtr1Start":"01-OCT-10",
        "Qtr1End":"31-DEC-10",
        "Qtr2Start":"01-JAN-11",
        "Qtr2End":"31-MAR-11",
        "Qtr3Start":"01-APR-11",
        "Qtr3End":"30-JUN-11",
        "Qtr4Start":"01-JUL-11",
        "Qtr4End":"30-SEP-11",
        "Qtr5Start":"01-OCT-11",
        "Qtr5End":"31-DEC-11",
        "Qtr6Start":"01-JAN-12",
        "Qtr6End":"31-MAR-12",
        "Qtr7Start":"01-APR-12",
        "Qtr7End":"30-JUN-12",
        "Qtr8Start":"01-JUL-12",
        "Qtr8End":"30-SEP-12",
        "Qtr9Start":"01-OCT-12",
        "Qtr9End":"31-DEC-12",
        "Qtr10Start":"01-JAN-13",
        "Qtr10End":"31-MAR-13",
        "Qtr11Start":"01-APR-13",
        "Qtr11End":"30-JUN-13",
        "Qtr12Start":"01-JUL-13",
        "Qtr12End":"30-SEP-13"
      }
    },
    "Sources":[
      {
        "Violations":[
          {
            "SourceID":"AR0046566",
            "ViolationDesc":"Schedule Event achieved late but reported: Engineering Plan",
            "NPDESViolationId":"2602015543",
            "Qtr1Status":null,
            "Qtr1Value":null,
            "Qtr2Status":null,
            "Qtr2Value":null,
            "Qtr3Status":null,
            "Qtr3Value":"06-29-11-06-30-11",
            "Qtr4Status":null,
            "Qtr4Value":null,
            "Qtr5Status":null,
            "Qtr5Value":null,

```

```
"Qtr6Status":null,
"Qtr6Value":null,
"Qtr7Status":null,
"Qtr7Value":null,
"Qtr8Status":null,
"Qtr8Value":null,
"Qtr9Status":null,
"Qtr9Value":null,
"Qtr10Status":null,
"Qtr10Value":null,
"Qtr11Status":null,
"Qtr11Value":null,
"Qtr12Status":null,
"Qtr12Value":null
}
,{
"SourceID":"AR0046566",
"ViolationDesc":"Schedule Event unachieved and not reported: O & M Condition A",
"NPDESViolationId":"1200014221",
"Qtr1Status":null,
"Qtr1Value":"03-10-08",
"Qtr2Status":null,
"Qtr2Value":">>>>>>>>>>",
"Qtr3Status":null,
"Qtr3Value":">>>>>>>>>>",
"Qtr4Status":null,
"Qtr4Value":">>>>>>>>>>",
"Qtr5Status":null,
"Qtr5Value":">>>>>>>>>>",
"Qtr6Status":null,
"Qtr6Value":">>>>>>>>>>",
"Qtr7Status":null,
"Qtr7Value":">>>>>>>>>>",
"Qtr8Status":null,
"Qtr8Value":">>>>>>>>>>",
"Qtr9Status":null,
"Qtr9Value":">>>>>>>>>>",
"Qtr10Status":null,
"Qtr10Value":">>>>>>>>>>",
"Qtr11Status":null,
"Qtr11Value":">>>>>>>>>>",
"Qtr12Status":null,
"Qtr12Value":">>>>>>>>>>"
}
< end of listing not included>
```

P. GET AIR COMPLIANCE

Service Specifications

get_air_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_air_compliance

Purpose

This procedure obtains data for the CAA Three Year Compliance Status by Quarter section located in the Enforcement and Compliance Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named AirCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Header	AirCompliance	Complex	See Appendix for definition
Sources	AirCompliance	Complex	
PermitHistory	Sources	Complex	See Appendix under the definition of Status
HPVHistory	Sources	Complex	See Appendix under the definition of Status
ProgramsPollutants	Sources	Complex	
Programs	ProgramsPollutants	Complex	
Program	Programs	Simple	The name of the EPA program that monitors compliance: CAA - Clean Air Act
Qtr1Status	Programs	Simple	See values in table below.
Qtr Status Repeats for quarters 2 through 12	Programs	Simple	See values in table below.

Pollutants	Programs	Complex	
Pollutant	Pollutants	Simple	The chemical pollutant being monitored.
Qtr 1 through Qtr12 Status	Pollutants	Simple	See status below.

Table of CAA Compliance Status Definitions

Status	Definition
V-NO SCH	In violation, no enforcement action has been issued specifying a compliance schedule
V-N SCH	In violation, an enforcement action has been issued, and the facility is not meeting its compliance schedule;
V-UNKNOWN	In violation, unknown w/regard to schedule;
V-EM&PRO	In violation, with regard to emissions and procedure (reporting requirements); or
V-PROCED	In violation, with regard to procedural compliance (reporting requirements).
No Viol	No violations found
HPV	Indicates facility is a High Priority Violator
UNKNOWN	Unknown status
S-MSched	Meeting compliance schedule.
No St Reg	No applicable state regulation. The air program is not delegated.
In Viol	Facility is In Violation.
Unaddr-State	The facility has not yet been addressed with a formal enforcement action from the state.

Example

http://ofmpub.epa.gov/echo/dfrestservices/getaircompliance?p_id=110000367567

```
{
"Results":{
"Message":"Success",
"AirCompliance":{
"Header":{
"Qtr1Start":"01-JAN-11",
"Qtr1End":"31-MAR-11",
"Qtr2Start":"01-APR-11",
"Qtr2End":"30-JUN-11",
"Qtr3Start":"01-JUL-11",
"Qtr3End":"30-SEP-11",
"Qtr4Start":"01-OCT-11",
"Qtr4End":"31-DEC-11",
"Qtr5Start":"01-JAN-12",
"Qtr5End":"31-MAR-12",
"Qtr6Start":"01-APR-12",
"Qtr6End":"30-JUN-12",
```

```

"Qtr7Start": "01-JUL-12",
"Qtr7End": "30-SEP-12",
"Qtr8Start": "01-OCT-12",
"Qtr8End": "31-DEC-12",
"Qtr9Start": "01-JAN-13",
"Qtr9End": "31-MAR-13",
"Qtr10Start": "01-APR-13",
"Qtr10End": "30-JUN-13",
"Qtr11Start": "01-JUL-13",
"Qtr11End": "30-SEP-13",
"Qtr12Start": "01-OCT-13",
"Qtr12End": "31-DEC-13"
}
,
"Sources": [
{
"PermitHistory": {
"SourceID": "0110300009",
"Qtr1Status": "No Viol",
"Qtr2Status": "No Viol",
"Qtr3Status": "In Viol",
"Qtr4Status": "In Viol",
"Qtr5Status": "No Viol",
"Qtr6Status": "No Viol",
"Qtr7Status": "No Viol",
"Qtr8Status": "No Viol",
"Qtr9Status": "No Viol",
"Qtr10Status": "HPV",
"Qtr11Status": "HPV",
"Qtr12Status": "HPV"
}
,
"HPVHistory": {
"SourceID": "0110300009",
"Qtr1Status": null,
"Qtr2Status": null,
"Qtr3Status": null,
"Qtr4Status": null,
"Qtr5Status": null,
"Qtr6Status": null,
"Qtr7Status": null,
"Qtr8Status": null,
"Qtr9Status": null,
"Qtr10Status": "Unaddr-State",
"Qtr11Status": "Unaddr-State",
"Qtr12Status": "Unaddr-State"
}
,
"ProgramsPollutants": [
{
"Program": "SIP",

```



```

"Qtr1Status":null,
"Qtr2Status":null,
"Qtr3Status":"V-No Sched",
"Qtr4Status":"V-No Sched",
"Qtr5Status":"S-MSched",
"Qtr6Status":"S-MSched",
"Qtr7Status":null,
"Qtr8Status":null,
"Qtr9Status":null,
"Qtr10Status":null,
"Qtr11Status":null,
"Qtr12Status":null,
"Pollutants":[
]
}
, {
"Program":"PSD",
"Qtr1Status":null,
"Qtr2Status":null,
"Qtr3Status":null,
"Qtr4Status":null,
"Qtr5Status":null,
"Qtr6Status":null,
"Qtr7Status":null,
"Qtr8Status":null,
"Qtr9Status":null,
"Qtr10Status":null,
"Qtr11Status":null,
"Qtr12Status":null,
"Pollutants":[
]
}
, {
"Program":"NSPS",
"Qtr1Status":null,
"Qtr2Status":null,
"Qtr3Status":null,
"Qtr4Status":null,
"Qtr5Status":null,
"Qtr6Status":null,
"Qtr7Status":null,
"Qtr8Status":null,
"Qtr9Status":null,
"Qtr10Status":null,
"Qtr11Status":null,
"Qtr12Status":null,
"Pollutants":[
]
}
, {
"Program":"MACT (SECTION 63 NESHAPS)",

```

```
"Qtr1Status":null,  
"Qtr2Status":null,  
"Qtr3Status":null,  
"Qtr4Status":null,  
"Qtr5Status":null,  
"Qtr6Status":null,  
"Qtr7Status":null,  
"Qtr8Status":null,  
"Qtr9Status":null,  
"Qtr10Status":"V-No Sched",  
"Qtr11Status":"S-MSched",  
"Qtr12Status":"S-MSched",  
"Pollutants":[  
]  
}
```

Q.GET RCRA COMPLIANCE

Service Specifications

get_rcra_compliance

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_rcra_compliance

Purpose

This procedure obtains the RCRA Three Year Compliance Status by Quarter data for the Enforcement and Compliance Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named RCRACompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Qtr1Start	RCRACompliance	Simple	The starting month and year of the quarter. A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December.
Qtr1End	RCRACompliance	Simple	The ending month and year of the quarter. A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December.
Qtr Start and Qtr End repeat for quarters 2 through 12	RCRACompliance	Simple	
Sources	RCRACompliance	Complex	A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December

SourceID	Sources	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Qtr1 Status through Qtr12 status	Sources	Complex	Status of the facility for the designated quarter. See table below for valid status values.
Violations	Sources	Complex	
SourceID	Violations	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Violation	Violations	Simple	Violation name or description.
Agency	Violations	Simple	The lead agency responsible for issuing the notice of violation.
Qtr1Status	Violations	Simple	For the RCRA program, violations are listed with the beginning and return-to-compliance dates across the twelve quarters. If the report shows a right arrow with no closing date that means that the violation has not been resolved and continues to be active in the data system. If the violation started before the last three years of data and continues into the last three years, the beginning date is listed in QTR1.
Qtr Status Repeats for quarters 2 through 12	Violations	Simple	See Qtr1Status.

Table of RCRA Compliance Status Definitions

Valid Status Value	Definition
SNC	Facility is in Significant Non-compliance
In Viol	Facility is In Violation. Violations are listed with the beginning and return-to-compliance dates across the twelve quarters. A right arrow with no closing date means that the violation has not been resolved and continues to be active in the data system. If the violation started before the last three years of data and continues into the last three years, the beginning date is listed in QTR1.

Example

http://ofmpub.epa.gov/echo/dfrest_services.get_rcra_compliance?p_id=110000367567

```
{
"Results":{
"Message":"Success",
"RCRACompliance":{
"Qtr1Start":"01-JAN-11",
"Qtr1End":"31-MAR-11",
"Qtr2Start":"01-APR-11",
"Qtr2End":"30-JUN-11",
"Qtr3Start":"01-JUL-11",
"Qtr3End":"30-SEP-11",
"Qtr4Start":"01-OCT-11",
"Qtr4End":"31-DEC-11",
"Qtr5Start":"01-JAN-12",
"Qtr5End":"31-MAR-12",
"Qtr6Start":"01-APR-12",
"Qtr6End":"30-JUN-12",
"Qtr7Start":"01-JUL-12",
"Qtr7End":"30-SEP-12",
"Qtr8Start":"01-OCT-12",
"Qtr8End":"31-DEC-12",
"Qtr9Start":"01-JAN-13",
"Qtr9End":"31-MAR-13",
"Qtr10Start":"01-APR-13",
"Qtr10End":"30-JUN-13",
"Qtr11Start":"01-JUL-13",
"Qtr11End":"30-SEP-13",
"Qtr12Start":"01-OCT-13",
"Qtr12End":"31-DEC-13"
},
"Sources":[
{
"Status":{
"SourceID":"ALD004023164",
"Qtr1Status":null,

```

```

"Qtr2Status":null,
"Qtr3Status":null,
"Qtr4Status":null,
"Qtr5Status":null,
"Qtr6Status":null,
"Qtr7Status":"In Viol",
"Qtr8Status":null,
"Qtr9Status":null,
"Qtr10Status":null,
"Qtr11Status":null,
"Qtr12Status":null
}
,
"Violations":[
{
"SourceID":"ALD004023164",
"Violation":"TSD - General Facility Standards",
"Agency":"AL",
"Qtr1Status":null,
"Qtr2Status":null,
"Qtr3Status":null,
"Qtr4Status":null,
"Qtr5Status":null,
"Qtr6Status":null,
"Qtr7Status":"JUL-25-2012 AUG-22-2012",
"Qtr8Status":null,
"Qtr9Status":null,
"Qtr10Status":null,
"Qtr11Status":null,
"Qtr12Status":null
}
,{
"SourceID":"ALD004023164",
"Violation":"TSD IS-Manifest/Records/Reporting",
"Agency":"AL",
"Qtr1Status":null,
"Qtr2Status":null,
"Qtr3Status":null,
"Qtr4Status":null,
"Qtr5Status":null,
"Qtr6Status":null,
"Qtr7Status":"JUL-25-2012 AUG-22-2012",
"Qtr8Status":null,
"Qtr9Status":null,
"Qtr10Status":null,
"Qtr11Status":null,
"Qtr12Status":null
}
}

```

R. GET SDWIS COMPLIANCE

Service Specifications

get_sdwis_compliance

Base URL

http://ofmpub.epa.gov/echo/dfrest_services.get_sdwis_compliance

Purpose

This procedure obtains the compliance data for the SDWIS section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Water system ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named SDWISCompliance comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Qtr1Start	SDWISCompliance	Simple	A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December.
Qtr1End	SDWISCompliance	Simple	A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December.
Qtr Start and Qtr End repeat for quarters 2 through 12	SDWISCompliance	Simple	See above definitions.
Sources	SDWISCompliance	Complex	
Status	Sources	Complex	See Appendix for definition
DrinkingWaterRule	Sources	Complex	
SourceID	Violations	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes

			in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Violation	Violations	Simple	Indicates if a violation has occurred in the quarter.
Qtr1 Status through Qtr12 status	Violations	Simple	Description of the violation.

Table of SDWIS Compliance Status Definitions

Valid Status Value	Definition
SNC/Serious Viol	The water system has unresolved serious, multiple, and/or continuing violations; it is in Significant Non-compliance.
In Violation	The water system has current violations.
No Violation	The EPA does not know of any unresolved violations for this water system.
No	The specified drinking water rule is not violated.
Yes	The specified drinking water rule is violated.

Example

http://ofmpub.epa.gov/echo/dfrestservices.get_sdwis_compliance?p_id=AL0001161

```
{
  "Results":{
    "Message":"Success",
    "SDWISCompliance":{
      "Qtr1Start":"01-JUL-10",
      "Qtr1End":"30-SEP-10",
      "Qtr2Start":"01-OCT-10",
      "Qtr2End":"31-DEC-10",
      "Qtr3Start":"01-JAN-11",
      "Qtr3End":"31-MAR-11",
      "Qtr4Start":"01-APR-11",
      "Qtr4End":"30-JUN-11",
      "Qtr5Start":"01-JUL-11",
      "Qtr5End":"30-SEP-11",
      "Qtr6Start":"01-OCT-11",
      "Qtr6End":"31-DEC-11",
      "Qtr7Start":"01-JAN-12",
      "Qtr7End":"31-MAR-12",
      "Qtr8Start":"01-APR-12",
      "Qtr8End":"30-JUN-12",
      "Qtr9Start":"01-JUL-12",
      "Qtr9End":"30-SEP-12",
      "Qtr10Start":"01-OCT-12",
      "Qtr10End":"31-DEC-12",
      "Qtr11Start":"01-JAN-13",
```



```
"Qtr11End": "31-MAR-13",
"Qtr12Start": "01-APR-13",
"Qtr12End": "30-JUN-13"
,
"Sources": [
{
"Status": {
"SourceID": "AL0001161",
"Qtr1Status": "No Violation",
"Qtr2Status": "No Violation",
"Qtr3Status": "In Violation",
"Qtr4Status": "In Violation",
"Qtr5Status": "In Violation",
"Qtr6Status": "SNC/Serious Viol",
"Qtr7Status": "No Violation",
"Qtr8Status": "No Violation",
"Qtr9Status": "No Violation",
"Qtr10Status": "No Violation",
"Qtr11Status": "No Violation",
"Qtr12Status": "No Violation"
}
}
,
"RulesViolated": [
{
"SourceID": "AL0001161",
"DrinkingWaterRule": "Nitrates",
"Qtr1Status": "No",
"Qtr2Status": "No",
"Qtr3Status": "Yes",
"Qtr4Status": "Yes",
"Qtr5Status": "Yes",
"Qtr6Status": "Yes",
"Qtr7Status": "No",
"Qtr8Status": "No",
"Qtr9Status": "No",
"Qtr10Status": "No",
"Qtr11Status": "No",
"Qtr12Status": "No"
}
}
```

S. GET WATER QUALITY

Service Specifications

get_water_quality

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_water_quality

Purpose

This procedure obtains Water Quality data in the Environmental Conditions Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named WaterQuality comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Sources	WaterQuality	Complex	
SourceID	Sources	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
EPASystem	Sources	Simple	The EPA data system in which the permit and facility records are maintained.
HUC8	Sources	Simple	The watershed 8-character sub basin designation.
HUC8Name	Sources	Simple	The name of the watershed 8-character sub basin.
WBD12	Sources	Simple	The watershed 12-character sub basin designation.
WBD12Name	Sources	Simple	The name of the watershed 12-

			character sub basin.
ReceivingWaters	Sources	Simple	All distinct bodies of water that receive runoff or wastewater discharges, such as streams, rivers, ponds, lakes, and estuaries.
ImpairedWaters	Sources	Simple	Indicates whether the body of water is over or under the TMDL (Total Maximum Daily Load).
CSS	Sources	Simple	Indicates whether the body of water is a combined sewer systems (sewers that are designed to collect rainwater runoff, domestic sewage, and industrial wastewater in the same pipe).

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_water_quality?p_id=110004404626

```
"Results":{
"Message":"Success",
"WaterQuality":{
"Sources":[
{
"SourceID":"NYA001418",
"EPASystem":"ICP",
"HUC8":"02030202",
"HUC8Name":"SOUTHERN LONG ISLAND",
"WBD12":"020302020101",
"WBD12Name":"Hook Creek-Head of Bay",
"ReceivingWaters":null,
"ImpairedWaters":null,
"CSS":null
}
],{
"SourceID":"NYU200220",
"EPASystem":"ICP",
"HUC8":"02030202",
"HUC8Name":"SOUTHERN LONG ISLAND",
"WBD12":"020302020101",
"WBD12Name":"Hook Creek-Head of Bay",
"ReceivingWaters":null,
"ImpairedWaters":null,
"CSS":null
}
```

T. GET NOTICES

Service Specifications

get_notices

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_notices

Purpose

This procedure obtains the Informal Enforcement Actions data for the Enforcement and Compliance Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named Notices comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	Notices	Complex	See Appendix for definition
Notice	Notices	Complex	
Statute	Notice	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
SourceID	Notice	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
ActionType	Notice	Simple	CAA Informal Enforcement Actions (AFS National Action Types): <ul style="list-style-type: none"> • 5A - EPA pre-NOV letter sent • 6A - EPA NOV issued

			<ul style="list-style-type: none"> • 7C - State NOV issued <p>RCRA Informal Enforcement Actions (RCRAInfo Action Series): Any code in the following series</p> <ul style="list-style-type: none"> • 120 - Written Informal • 190 - Combination Informal <p>CWA Informal Enforcement Actions (ICIS-NPDES Activity Type Code):</p> <ul style="list-style-type: none"> • AIF - Administrative Informal <p>AND</p> <ul style="list-style-type: none"> ○ LOVWL - Letter of Violation/Warning Letter ○ NONC - Notice of Noncompliance Issued ○ NOV - Notice of Violation <p>Note: The types of action noted above are nationally defined by EPA. Other types of action shown in the report are defined or maintained by EPA regions or state agencies.</p>
LeadAgency	Notice	Simple	The lead agency responsible for issuing the notice of violation.
NoticeDate	Notice	Simple	The date of the most recent informal enforcement action issued to the facility.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_notices?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "Notices":{
      "ProgramDates":[
        {
          "Program":"CAA",
          "StartDate":"01-JAN-09",
          "EndDate":"31-DEC-13"
        }
      ],
      "Notice":[
        {
          "Statute":"CAA",
          "SourceID":"0110300009",
          "ActionType":"STATE NOV ISSUED",
          "LeadAgency":"State",
          "NoticeDate":"01-APR-13"
        }
      ]
    }
  }
}
```

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```
"Statute":"CAA",  
"SourceID":"0110300009",  
"ActionType":"STATE NOV ISSUED",  
"LeadAgency":"State",  
"NoticeDate":"11-AUG-11"  
}
```

U. GET FORMAL ACTIONS

Service Specifications

get_formal_actions

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_formal_actions

Purpose

This procedure obtains the Formal Enforcement Actions data for the Enforcement and Compliance Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named FormalActions comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	FormalActions	Complex	See Appendix for definition
Action	FormalActions	Complex	
Statute	Action	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
SourceID	Action	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.

ActionType	Action	Simple	Text description of type of enforcement action. The type of action and description are designated differently in each system, but may be equivalent.
LeadAgency	Action	Simple	The lead agency responsible for the enforcement action.
ActionDate	Action	Simple	The date of the most recent civil or administrative enforcement action taken against the facility.
PenaltyAmount	Action	Simple	Dollar amount of penalty assessed, when available. Amount is the final penalty unless otherwise noted in the Penalty Description field. In PCS, state administrative penalties are not required to be input to the system.
PenaltyDesc	Action	Simple	Further details on listed enforcement action or penalty, when available (only from RCRA Info).

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_formal_actions?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "FormalActions":{
      "ProgramDates":[
        {
          "Program":"CAA",
          "StartDate":"01-JAN-09",
          "EndDate":"31-DEC-13"
        }
      ]
    },
    "Action":[
      {
        "Statute":"CAA",
        "SourceID":"0110300009",
        "ActionType":"STATE ADMINISTRATIVE ORDER ISSUED",
        "LeadAgency":"State",
        "ActionDate":"07-OCT-13",
        "PenaltyAmount":"20000",
        "PenaltyDesc":null
      }
    ],
    {
      "Statute":"CAA",
      "SourceID":"0110300009",
      "ActionType":"STATE ADMINISTRATIVE ORDER ISSUED",
      "LeadAgency":"State",
```


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```
"ActionDate":"29-FEB-12",  
"PenaltyAmount":"6000",  
"PenaltyDesc":null
```

V. GET ICIS FORMAL ACTIONS

Service Specifications

get_icis_formal_actions

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_icis_formal_actions

Purpose

This procedure obtains data for the ICIS Case History in the Enforcement and Compliance Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named ICISFormalActions comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
ProgramDates	ICISFormalActions	Complex	See Appendix for definition
Action	ICISFormalActions	Complex	
StatuteCode	Action	Simple	The name of the statute associated with each of the permits and identifiers linked to the facility: CAA = the Clean Air Act; CWA = the Clean Water Act; RCRA = the Resource Conservation and Recovery Act; SDWA = the Safe Drinking Water Act.
LawSectionCode	Action	Simple	The section of law violated associated with the primary law entered. In some instances a violation may be a violation of two or more sections of the same statute, and one combination of law and section is designated as the primary law and section violated.
CaseID	Action	Simple	A unique identifier for each case. EPA

			regions keep a log of the case numbers so that each new case is entered using the next incremental Case Number. For federal cases, the Case Number must be entered in the rr-yyyy-nnnn format, where: <ul style="list-style-type: none"> • rr = the Responsible Office for the case, with possible values being 01 through 10 (the EPA regional offices), and HQ (EPA Headquarters) • yyyy = the Fiscal Year during which the case is initially developed • nnnn = the sequence number, with possible values from 0000 through 9999
ActivityName	Action	Simple	The user-created name for the activity to include names for enforcement actions, inspections, inspection types.
LeadAgency	Action	Simple	The lead agency responsible for the case.
CaseType	Action	Simple	The type of compliance event or enforcement action. The following is a list of possible case types. Administrative - Formal Administrative - Informal Judicial
CaseName	Action	Simple	An alphanumeric field that contains the name assigned to the case by the lead attorney. Generally the primary defendant's name or the facility name is used as the case name.
IssueDate	Action	Simple	For administrative cases, this field indicates the date that the complaint or Administrative Order (AO) was signed by the appropriate authority and issued to the respondent. For judicial cases, this field indicates the date that the complaint was filed with the Clerk of the Court.
SettlementDate	Action	Simple	The date the settlement document (Consent Decree or Judicial Order) was signed by the judge and entered by the Clerk of Court. It is the date that the Clerk stamps on the document.
FederalPenalty	Action	Simple	The assessed amount of the federal penalty (in dollars) for each settlement.
StateLocalPenalty	Action	Simple	The assessed amount of the state penalty (in dollars) for each settlement.
SepCost	Action	Simple	SEPs are compliance agreements that reduce a facility's penalty in return for completion of an environmental project whose value exceeds the amount of the penalty reduction.

CompActionCost	Action	Simple	The whole dollar amount of the estimated or actual value of the complying action activities.
----------------	--------	--------	--

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_icis_formal_actions?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "ICISFormalActions":{
      "ProgramDates":[
        {
          "Program":"CERCLA",
          "StartDate":null,
          "EndDate":null
        }
      ],
      {
        "Program":"EPCRA",
        "StartDate":null,
        "EndDate":null
      }
    ],
    "Action":[
      {
        "StatuteCode":"CERCLA",
        "LawSectionCode":"103A",
        "CaseID":"04-2010-2004",
        "ActivityName":"3M COMPANY",
        "LeadAgency":"EPA",
        "CaseType":"Administrative - Formal",
        "CaseName":"3M COMPANY",
        "IssueDate":"24-DEC-09",
        "SettlementDate":"24-DEC-09",
        "FederalPenalty":"$1,310",
        "StateLocalPenalty":null,
        "SepCost":"$4,913",
        "CompActionCost":"$100"
      },
      {
        "StatuteCode":"EPCRA",
        "LawSectionCode":"313",
        "CaseID":"04-2011-9140",
        "ActivityName":"3M CORPORATION",
        "LeadAgency":"EPA",
        "CaseType":"Administrative - Formal",
        "CaseName":"3M CORPORATION",
        "IssueDate":"01-DEC-11",
        "SettlementDate":"01-DEC-11",

```

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"FederalPenalty":null,
"StateLocalPenalty":null,
"SepCost":null,
"CompActionCost":null

W. GET TRI HISTORY

Service Specifications

get_tri_history

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_tri_history

Purpose

This procedure obtains data for TRI History of Reported Chemicals Released in Pounds per Year at Site for the Environmental Conditions section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named TRIHistory comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Sources	TRIHistory	Complex	
ReleaseYear	Sources	Complex	
SourceID	ReleaseYear	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Year	ReleaseYear	Simple	The calendar year during which the releases and transfers occurred. This is not the year that the report was submitted.
TotalAirEmissions	ReleaseYear	Simple	The total fugitive (non-point air emissions) and stack or point air emissions, in pounds per year.

SurfaceWaterDischarges	ReleaseYear	Simple	The total direct discharges to receiving streams or water bodies, in pounds per year.
UndergroundInjections	ReleaseYear	Simple	The total underground injections to wells on-site, in pounds per year.
ReleasesToLand	ReleaseYear	Simple	Total releases to land on-site (includes landfills), in pounds per year.
TotalOnSiteReleases	ReleaseYear	Simple	Total pounds per year released for Air Emissions, Surface Water Discharges, Underground Injections and Releases to Land.
TotalOffSiteReleases	ReleaseYear	Simple	The total amount, in pounds per year, transferred off site to Publicly Owned Treatment Works (POTWs) and other off-site locations.
TotalReleasesTransfers	ReleaseYear	Simple	Grand total for Air Emissions, Surface Water Discharges, Underground Injections, Releases to Land, On-Site Releases and Off-Site Transfers in pounds per year for all types of chemicals.

Example

http://ofmpub.epa.gov/echo/dfrestservices.get_trihistory?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "TRIHistory":{
      "Sources":[
        {
          "ReleaseYear":[
            {
              "SourceID":"35602MCPNSTATE",
              "Year":"2003",
              "TotalAirEmissions":"173,920",
              "SurfaceWaterDischarges":"830",
              "UndergroundInjections":null,
              "ReleasesToLand":"0",
              "TotalOnSiteReleases":"174,750",
              "TotalOffSiteReleases":"1,150,987",
              "TotalReleasesTransfers":"1,325,737"
            }
          ]
        }
      ],
      "SourceID":"35602MCPNSTATE",
```

```
"Year": "2004",
"TotalAirEmissions": "165,526",
"SurfaceWaterDischarges": "1,902",
"UndergroundInjections": null,
"ReleasesToLand": "0",
"TotalOnSiteReleases": "167,428",
"TotalOffSiteReleases": "2,154,230",
"TotalReleasesTransfers": "2,321,658"
}
, {
"SourceID": "35602MCOMPSTATE",
"Year": "2005",
"TotalAirEmissions": "155,654",
"SurfaceWaterDischarges": "1,902",
"UndergroundInjections": null,
"ReleasesToLand": "0",
"TotalOnSiteReleases": "157,556",
"TotalOffSiteReleases": "2,166,290",
"TotalReleasesTransfers": "2,323,846"
}
, {
"SourceID": "35602MCOMPSTATE",
"Year": "2006",
"TotalAirEmissions": "129,043",
"SurfaceWaterDischarges": "1,410",
"UndergroundInjections": null,
"ReleasesToLand": "0",
"TotalOnSiteReleases": "130,453",
"TotalOffSiteReleases": "2,266,790",
"TotalReleasesTransfers": "2,397,243"
}
, {
"SourceID": "35602MCOMPSTATE",
"Year": "2007",
"TotalAirEmissions": "161,922",
"SurfaceWaterDischarges": "746",
"UndergroundInjections": "0",
"ReleasesToLand": "0",
"TotalOnSiteReleases": "162,668",
"TotalOffSiteReleases": "1,916,501",
"TotalReleasesTransfers": "2,079,169"
}
, {
"SourceID": "35602MCOMPSTATE",
"Year": "2008",
"TotalAirEmissions": "268,100",
"SurfaceWaterDischarges": "562",
"UndergroundInjections": null,
"ReleasesToLand": "0",
"TotalOnSiteReleases": "268,662",
"TotalOffSiteReleases": "1,745,339",
```



```
"TotalReleasesTransfers":"2,014,001"
}
,{
"SourceID":"35602MCMPNSTATE",
"Year":"2009",
"TotalAirEmissions":"125,309",
"SurfaceWaterDischarges":"520",
"UndergroundInjections":null,
"ReleasesToLand":"0",
"TotalOnSiteReleases":"125,829",
"TotalOffSiteReleases":"1,467,860",
"TotalReleasesTransfers":"1,593,689"
}
,{
"SourceID":"35602MCMPNSTATE",
"Year":"2010",
"TotalAirEmissions":"141,468",
"SurfaceWaterDischarges":"793",
"UndergroundInjections":null,
"ReleasesToLand":"0",
"TotalOnSiteReleases":"142,261",
"TotalOffSiteReleases":"2,192,300",
"TotalReleasesTransfers":"2,334,561"
}
,{
"SourceID":"35602MCMPNSTATE",
"Year":"2011",
"TotalAirEmissions":"225,608",
"SurfaceWaterDischarges":"696",
"UndergroundInjections":null,
"ReleasesToLand":"0",
"TotalOnSiteReleases":"226,304",
"TotalOffSiteReleases":"3,300,770",
"TotalReleasesTransfers":"3,527,074"
```

X. GET TRI RELEASES

Service Specifications

get_tri_releases

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_tri_releases

Purpose

This procedure obtains data for TRI Total Release and Transfers by Chemical and Year for the Environmental Conditions section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named TRIRelases comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Sources	TRIRelases	Complex	
Header	Sources	Complex	
SourceID	Header	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Year1	Header	Simple	The calendar year during which the releases and transfers occurred. This is not the year that the report was submitted.
Year repeats for Year2 – Year9	Header	Simple	The calendar year during which the releases and transfers occurred.
Years	Sources	Complex	

SourceID	Years	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
ChemicalName	Years	Simple	The TRI chemical to which the data in this row applies.
Year1Pounds	Years	Simple	The total pounds either released to air, discharged to surface water, injected underground, landfilled on-site, or transferred off-site for disposal or to a POTW.
Year Pounds repeats for Year2 through Year9	Years	Simple	The total pounds either released to air, discharged to surface water, injected underground, landfilled on-site, or transferred off-site for disposal or to a POTW.

Example

http://ofmpub.epa.gov/echo/dfrestservices/gettri/releases?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "TRIRelases":{
      "Sources":[
        {
          "Header":[
            {
              "SourceID":"35602MCMPNSTATE",
              "Year1":"2003",
              "Year2":"2004",
              "Year3":"2005",
              "Year4":"2006",
              "Year5":"2007",
              "Year6":"2008",
              "Year7":"2009",
              "Year8":"2010",
              "Year9":"2011"
            }
          ]
        }
      ],
      "Years":[
        {
          "SourceID":"35602MCMPNSTATE",
```

```
"ChemicalName": "1,1,1-TRICHLOROETHANE",
"Year1Pounds": null,
"Year2Pounds": null,
"Year3Pounds": null,
"Year4Pounds": null,
"Year5Pounds": null,
"Year6Pounds": null,
"Year7Pounds": null,
"Year8Pounds": null,
"Year9Pounds": null
}
, {
"SourceID": "35602MCPNSTATE",
"ChemicalName": "1,3-BUTADIENE",
"Year1Pounds": null,
"Year2Pounds": null,
"Year3Pounds": null,
"Year4Pounds": null,
"Year5Pounds": null,
"Year6Pounds": null,
"Year7Pounds": null,
"Year8Pounds": null,
"Year9Pounds": null
}
, {
"SourceID": "35602MCPNSTATE",
"ChemicalName": "1,4-DIOXANE",
"Year1Pounds": null,
"Year2Pounds": null,
"Year3Pounds": null,
"Year4Pounds": null,
"Year5Pounds": null,
"Year6Pounds": null,
"Year7Pounds": null,
"Year8Pounds": null,
"Year9Pounds": null
}
, {
"SourceID": "35602MCPNSTATE",
"ChemicalName": "1-CHLORO-1,1-DIFLUOROETHANE",
"Year1Pounds": "32140",
"Year2Pounds": "2612",
"Year3Pounds": "71912",
"Year4Pounds": "41812",
"Year5Pounds": "89212",
"Year6Pounds": "210012",
"Year7Pounds": "54812",
"Year8Pounds": "78812",
"Year9Pounds": "104757"
}
, {
```

```
"SourceID": "35602MCMPNSTATE",  
"ChemicalName": "ACETALDEHYDE",  
"Year1Pounds": "61800",  
"Year2Pounds": "53700",  
"Year3Pounds": "51900",  
"Year4Pounds": "52000",  
"Year5Pounds": "53500",  
"Year6Pounds": "38300",  
"Year7Pounds": "48100",  
"Year8Pounds": "58000",  
"Year9Pounds": "44100"  
}  
< end of listing not included >
```

Y. GET AIR QUALITY

Service Specifications

get_air_quality

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_air_quality

Purpose

This procedure obtains data for Air Quality in the Environmental Conditions Section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named AirQuality comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
Sources	AirQuality	Complex	
Ozone8hr1997Area	Sources	Simple	If null, the facility is not located in a designated non-attainment area. If populated, the value is the name of the non-attainment area; normally this is a city or county name.
Ozone8hr2008Area	Sources	Simple	If null, the facility is not located in a designated non-attainment area. If populated, the value is the name of the non-attainment area; normally this is a city or county name.
Lead2008Area	Sources	Simple	If null, the facility is not located in a designated non-attainment area. If populated, the value is the name of the non-attainment

			area; normally this is a city or county name.
PaticulateMatter1997Area	Sources	Simple	If null, the facility is not located in a designated non-attainment area. If populated, the value is the name of the non-attainment area; normally this is a city or county name.
ParticulateMatter2006Area	Sources	Simple	If null, the facility is not located in a designated non-attainment area. If populated, the value is the name of the non-attainment area; normally this is a city or county name.

Example

http://ofmpub.epa.gov/echo/dfrestservices.get_air_quality?p_id=110001186877

```
{
  "Results":{
    "Message":"Success",
    "AirQuality":{
      "Ozone8hr1997Area":"Los Angeles-South Coast Air Basin, CA",
      "Ozone8hr2008Area":"Los Angeles-South Coast Air Basin, CA",
      "Lead2008Area":null,
      "PaticulateMatter1997Area":"Los Angeles-South Coast Air Basin, CA",
      "ParticulateMatter2006Area":"Los Angeles, CA"
    }
  }
}
```

Z. GET DEMOGRAPHICS

Service Specifications

get_demographics

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_demographics

Purpose

This procedure obtains data the Demographic Profile section of the DFR.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
p_radius	1,3,5	3	The number of miles, in any direction, from the center point of the facility that is included in the demographic profile. The default value is 3 miles.
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named Demographics comprised of the following simple objects.

All income and education related data, as well as the number of households on public assistance and the number of persons below poverty level is from the 2010 American Community Survey (ACS).

The remaining demographic data is from the 2010 Census.

Object Name	Object Type	Definition
Radius	Simple	The number of miles, in any direction, from the center point of the facility that is included in the demographic profile.
CenterLatitude	Simple	The latitude of the facility in degrees, to four decimal places.
CenterLongitude	Simple	The longitude of the facility in degrees, to four decimal places.
TotalPersons	Simple	The total number of persons that reside in the area being profiled. The total population within the selected radius of a facility is one indicator of the facility's surrounding environment and provides

		context for other facility indicators.
LandArea	Simple	The percentage of the total area that is land (not water). This is calculated using the sum of the land areas of the Census Block Groups (CBG) within the selected radius.
WaterArea	Simple	The percentage of the total area that is water (not land). This is calculated using the sum of the water areas of the Census Block Groups (CBG) within the selected radius.
PopulationDensity	Simple	The number of persons per square mile in the area being profiled. This field is the ratio of total persons (displayed in the Total Persons field) to total land area (displayed in the Land Area field).
PercentMinority	Simple	The percentage of the population of the given area that is minority. The field is calculated by subtracting the number of persons who are white (and not of Hispanic origin) from the total persons. This number is then divided by the total persons and multiplied by one hundred to determine the percentage.
Households	Simple	The number of households in the area being profiled.
HousingUnits	Simple	The number of housing units in the area being profiled.
HouseholdsPublicAssistance	Simple	The number of households that are on any type of public assistance (including subsidized housing, welfare, aid to dependent children, etc.).
PersonsBelowPovertyLevel	Simple	The number of people in the selected area that are below the poverty level.
White	Simple	The number and percentage of persons living in the area who are white.
AfricanAmerican	Simple	The number and percentage of persons living in the area who are African American.
HispanicOrigin	Simple	The number and percentage of persons living in the area who are of Hispanic origin.
AsianPacificIslander	Simple	The number and percentage of persons living in the area who are of Asian Pacific Islander origin.

AmericanIndian	Simple	The number and percentage of persons living in the area who are of American Indian origin.
OtherMultiracial	Simple	The number and percentage of persons living in the area who are not included in the above classifications or are multiracial.
Child	Simple	The number and percentage of persons living in the area who are five years old or younger.
Minors	Simple	The number and percentage of persons living in the area that are seventeen years old or younger.
Adults	Simple	The number and percentage of persons living in the area who are between eighteen years old and sixty-five years old.
Seniors	Simple	The number and percentage of persons living in the area who are sixty-five years old or older.
Less9thGrade	Simple	The number and percentage of persons living in the area who have less than a ninth grade education.
Grades9to12	Simple	The number and percentage of persons living in the area who have completed grades nine through twelve.
HSDiploma	Simple	The number and percentage of persons living in the area who have a high school diploma.
SomeCollege	Simple	The number and percentage of persons living in the area who have some college or a two year college degree.
BSBA	Simple	The number and percentage of persons living in the area who have a bachelor's degree or higher.
IncomeLess15k	Simple	The number and percentage of households who earn less than \$15,000 per year.
Income15to25k	Simple	The number and percentage of households who earn greater than or equal to \$15,000 but less than \$25,000 per year.
Income25to50k	Simple	The number and percentage of households who earn greater than or equal to \$25,000 but less than \$50,000 per year.

Income50to75k	Simple	The number and percentage of households who earn greater than or equal to \$50,000 per year but less than \$75,000 per year.
Income75kPlus	Simple	The number and percentage of households who earn greater than or equal to \$75,000 per year.

Example

http://ofmpub.epa.gov/echo/dfrestservices.get_demographics?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "Demographics":{
      "Radius":"3",
      "CenterLatitude":"34.639583",
      "CenterLongitude":"-87.038306",
      "TotalPersons":"3,403",
      "LandArea":"54%",
      "WaterArea":"46%",
      "PopulationDensity":"223/sq.mi.",
      "PercentMinority":"68%",
      "Households":"1,049",
      "HousingUnits":"1,165",
      "HouseholdsPublicAssistance":"22",
      "PersonsBelowPovertyLevel":"1,831",
      "White":"1,084 (31.85%)",
      "AfricanAmerican":"1,724 (50.66%)",
      "HispanicOrigin":"711 (20.89%)",
      "AsianPacificIslander":"11 (.32%)",
      "AmericanIndian":"12 (.35%)",
      "OtherMultiracial":"572 (16.81%)",
      "Child":"238 (6.99%)",
      "Minors":"781 (22.95%)",
      "Adults":"2,623 (77.08%)",
      "Seniors":"308 (9.05%)",
      "Less9thGrade":"194 (11.36%)",
      "Grades9to12":"240 (14.06%)",
      "HSDiploma":"572 (33.51%)",
      "SomeCollege":"523 (30.64%)",
      "BSBA":"178 (10.43%)",
      "IncomeLess15k":"178 (10.43%)",
      "Income15to25k":"339 (29.2%)",
      "Income25to50k":"291 (25.06%)",
      "Income50to75k":"76 (6.55%)",
      "Income75kPlus":"157 (13.52%)"
    }
  }
}
```

AA. GET MAP DATA

Service Specifications

get_map

Base URL

http://ofmpub.epa.gov/echo/dfr_rest_services.get_map

Purpose

This procedure obtains the data needed to create the facility locations on the DFR Map.

Inputs

Parameter	Valid Values	Default	Definition
output	JSON, JSONP, XML	JSON	Format of the output data
p_id			Facility or permit ID
callback		callback	JSONP callback function name.

Outputs

An XML, JSON, or JSONP formatted document with the following output:

For each facility returned there will be a simple object named Message containing either the word “Success” or a detailed error message, and if no error message, a complex object named MapOutput comprised of the following complex and simple objects.

Object Name	Parent Object Name	Object Type	Definition
IconBaseURL	MapOutput	Simple	URL Where all the icons are located.
PopUpBaseURL	MapOutput	Simple	Combine this URL with the PUV to get popup info.
MapData	MapOutput	Complex	
LAT	MapData	Simple	The latitude of the facility in degrees, to four decimal places.
LONG	MapData	Simple	The longitude of the facility in degrees, to four decimal places.
ICON	MapData	Simple	Name of each individual icon file within the URL base.
TYPE	MapData	Simple	For DFR, this is always facility.
NAME	MapData	Simple	For DFR, this is the Facility name. The name corresponds to the TYPE value.
PUV	MapData	Simple	Pop up value. Combine with PopUpBaseURL to give the pop-up for the facility.

Example

http://ofmpub.epa.gov/echo/dfr_rest_services.get_map?p_id=110000367567

```
{
  "Results":{
    "Message":"Success",
    "MapOutput":{
      "IconBaseURL":"http://echo.epa.gov/app/map/icons/",
      "PopUpBaseURL":"http://ofmpub.epa.gov/echo/rest_services.pop_up?p_id=",
      "CenterLatitude":"34.641667",
      "CenterLongitude":"-87.038611",
      "MapData":[
        {
          "LAT":"34.641667",
          "LON":"-87.038611",
          "ICON":"MULT-SNC-MJ-1.png",
          "TYPE":"Facility",
          "NAME":"3M COMPANY",
          "PUV":"110000367567"
        }
      ],
      {
        "LAT":"34.640621",
        "LON":"-87.041458",
        "ICON":"MULT-IC-MJ-1.png",
        "TYPE":"Facility",
        "NAME":"MDA MANUFACTURING INC",
        "PUV":"110000367451"
      }
    }
  }
}
```

APPENDIX A**BB. PROGRAMDATES**

Object Name	Object Type	Definition
Program	Simple	The name of the EPA program that monitors compliance: CAA - Clean Air Act CWA - Clean Water Act RCRA - Resource Conservation and Recovery Act SDWA - Safe Drinking Water Act (SDWA).
StartDate	Simple	Starting date of the reporting period.
EndDate	Simple	Ending date of the reporting period.

CC. HEADER

Object Name	Object Type	Definition
Qtr1Start	Simple	The starting month and year of the quarter. A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December
Qtr1End	Simple	The ending month and year of the quarter. A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December
Qtr Start and Qtr End repeat for quarters 2 through 12	Simple	See above.

DD. STATUS

Object Name	Object Type	Definition
SourceID	Simple	An identifier which is a unique value for each record/permit/site within each data system. These identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
Qtr1Status	Simple	Status for the designated quarter.
Qtr Status repeats for Qtr2 through Qtr12	Simple	Status for the designated quarter.

EE. VIOLATIONS

Object Name	Object Type	Definition
SourceID	Simple	An identifier which is a unique value for each record/permit/site within each data system. These

		identifiers are for tracking purposes in the individual data systems. The identifier used in the federal AFS database is typically different from the permit number issued to the facility.
ViolationDesc	Simple	
NPDESViolationId	Simple	
Qtr1Status	Simple	Status for the designated quarter.
Qtr1Value	Simple	A quarter is any of the following 3-month calendar periods: January-March, April-June, July-September, or October-December
Qtr Status and Qtr Value repeat for quarters 2 through 12	Simple	See above definitions.