

Alternative Fuel Station



Tags

Alternative, fuels, green, bio, climate change, conservation, 2013, 2014, alternative fueling station locator, web application, vehicles, locate stations, law & incentives, renewable energy, 2015

Summary

More than 250 million vehicles consume millions of barrels of petroleum every day in the United States. On-road passenger travel alone accounts for more than 2.5 trillion vehicle miles traveled each year. Vehicle fleet managers and drivers, corporate decision makers, and public transportation planners can use these strategies to conserve fuel.

Description

Through a nationwide network of local coalitions, [Clean Cities](#) provides project assistance to help stakeholders in the public and private sectors deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies.

Department of Energy collects this data as part of the Projects undertaken by Clean Cities coalitions and stakeholders to ensure customers access to clean alternative energy. These data can be found at the Department of Energy Alternative Fuels Data Center Web Feature Service: <http://www.afdc.energy.gov/locator/stations/>

Clean Cities is the deployment arm of the U.S. Department of Energy's (DOE) Vehicle Technologies Office.

Credits

There are no credits for this item.

Use limitations

None

Extent

West -159.475426 **East** -5.170103
North 64.812235 **South** 19.609150

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE economy, environment, health, transportation, utilities
Communication
* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No
PLACE KEYWORDS United States, National, Stations
STRATUM KEYWORDS NTAD, National Transportation Atlas Databases
TEMPORAL KEYWORDS 2014, 2015
THEME KEYWORDS Fuel, Transportation, vehicle, energy, NTAD, renewable

Citation

TITLE Alternative Fuel Station
ALTERNATE TITLES Alternative Fuel Data Center
CREATION DATE 2013-03-20 00:00:00
PUBLICATION DATE 2013-03-13 00:00:00
PRESENTATION FORMATS * digital map
OTHER CITATION DETAILS
Data compiled in National Transportation Atlas Databases taken from the Alternative Fuel Data Center website (<http://www.afdc.energy.gov/locator/stations/>) for distribution.

Citation Contacts

RESPONSIBLE PARTY
ORGANIZATION'S NAME Office of the Assistant Secretary for Research and Technology/Bureau of Transportation Statistics (BTS)
INDIVIDUAL'S NAME National Transportation Atlas Databases (NTAD) 2015
CONTACT'S POSITION Geospatial Information Systems
CONTACT'S ROLE publisher
CONTACT INFORMATION
PHONE
VOICE 202-366-DATA
ADDRESS
TYPE
DELIVERY POINT 1200 New Jersey Ave. SE
CITY Washington
ADMINISTRATIVE AREA DC
POSTAL CODE 20590
E-MAIL ADDRESS answers@BTS.gov

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Andrew Hudgins
ORGANIZATION'S NAME National Renewable Energy Laboratory (NREL)
CONTACT'S POSITION Project Leader, Clean Cities
CONTACT'S ROLE originator
CONTACT INFORMATION
PHONE
VOICE 303-275-4382
ADDRESS
TYPE physical
DELIVERY POINT 15013 Denver West Parkway
CITY Golden
ADMINISTRATIVE AREA CO
POSTAL CODE 80401
COUNTRY US
E-MAIL ADDRESS Andrew.Hudgins@nrel.gov
HOURS OF SERVICE
9 - 5 Mountain time
CONTACT INSTRUCTIONS
<http://www.afdc.energy.gov/locator/stations/>
RESPONSIBLE PARTY
INDIVIDUAL'S NAME Andrew Hudgins

ORGANIZATION'S NAME National Renewable Energy Laboratory (NREL)
CONTACT'S POSITION Project Leader, Clean Cities
CONTACT'S ROLE originator

Locales

LOCALE (UNITED STATES)

Resource Details

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format
SPATIAL REPRESENTATION TYPE * vector
* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322
ARCGIS ITEM PROPERTIES
* NAME alternative_fuel_station_site_v5
* SIZE 0.424
LOCATION withheld
* ACCESS PROTOCOL Local Area Network

Extents

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -159.475426
* EAST LONGITUDE -5.170103
* NORTH LATITUDE 64.812235
* SOUTH LATITUDE 19.609150
* EXTENT CONTAINS THE RESOURCE Yes
EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -17752723.216360
* EAST LONGITUDE -575533.233309
* SOUTH LATITUDE 2226786.406314
* NORTH LATITUDE 9559086.310487
* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT
INDIVIDUAL'S NAME Andrew Hudgins
ORGANIZATION'S NAME National Renewable Energy Laboratory (NREL)
CONTACT'S ROLE originator
CONTACT INFORMATION
PHONE
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INDIVIDUAL'S NAME National Transportation Atlas Databases (NTAD) 2015

CONTACT'S POSITION Geospatial Information Services

CONTACT'S ROLE distributor

CONTACT INFORMATION

PHONE

VOICE 800-853-1351

ADDRESS

TYPE

DELIVERY POINT 1200 New Jersey Ave. SE

CITY Washington

ADMINISTRATIVE AREA DC

POSTAL CODE 20590

COUNTRY US

E-MAIL ADDRESS answers@bts.gov

Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY continual

MAINTENANCE CONTACT

INDIVIDUAL'S NAME Andrew Hudgins

ORGANIZATION'S NAME National Renewable Energy Laboratory (NREL)

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Resource Constraints

CONSTRAINTS

LIMITATIONS OF USE

None

Spatial Reference

ARCgis COORDINATE SYSTEM

* TYPE **Projected**

* GEOGRAPHIC COORDINATE REFERENCE **GCS_WGS_1984**

* PROJECTION **WGS_1984_Web_Mercator_Auxiliary_Sphere**

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER **102100**

X ORIGIN **-21950603.29439573**

Y ORIGIN **-30241100**

XY SCALE **144357470.04444832**

Z ORIGIN **-100000**

Z SCALE **10000**

M ORIGIN **-100000**

M SCALE **10000**

XY TOLERANCE **0.001**

Z TOLERANCE **0.001**

M TOLERANCE **0.001**

HIGH PRECISION **true**

LATEST WELL-KNOWN IDENTIFIER **3857**

WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS

["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID

["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT

["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER

["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER

["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER

["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

* VALUE **3857**

* CODESPACE **EPSG**

* VERSION **8.2.6**

Spatial Data Properties

VECTOR

* LEVEL OF TOPOLOGY FOR THIS DATASET **geometry only**

GEOMETRIC OBJECTS

FEATURE CLASS NAME **alternative_fuel_station_site_v5**

* OBJECT TYPE **point**

* OBJECT COUNT **15882**

ARCgis FEATURE CLASS PROPERTIES

FEATURE CLASS NAME **alternative_fuel_station_site_v5**

* FEATURE TYPE **Simple**

* GEOMETRY TYPE **Point**

* HAS TOPOLOGY **FALSE**

* FEATURE COUNT **15882**

* SPATIAL INDEX **TRUE**

* LINEAR REFERENCING **FALSE**

Distribution

DISTRIBUTOR

CONTACT INFORMATION

INDIVIDUAL'S NAME **Andrew Hudgins**

ORGANIZATION'S NAME **National Renewable Energy Laboratory (NREL)**

CONTACT'S ROLE **originator**

CONTACT INFORMATION

PHONE

VOICE **303-275-4382**

ADDRESS

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ADMINISTRATIVE AREA DC

POSTAL CODE 20590

COUNTRY US

E-MAIL ADDRESS answers@gov.gov

CONTACT INSTRUCTIONS

Data can be viewed and downloaded at:

<http://www.afdc.energy.gov/locator/stations/>

or

http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national_transportation_atlas_database/index.html

DISTRIBUTION FORMAT

VERSION 10.1

* NAME File Geodatabase Feature Class

TRANSFER OPTIONS

* TRANSFER SIZE 0.424

Fields

DETAILS FOR OBJECT [alternative_fuel_station_site_v5](#)

* TYPE Feature Class

* ROW COUNT 15882

FIELD OBJECTID

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

FIELD Shape

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

esri generated

* DESCRIPTION SOURCE

Esri

LIST OF VALUES

VALUE Point

* DESCRIPTION OF VALUES

Coordinates defining the features.

FIELD Fuel_Type

- * ALIAS Fuel_Type
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The type of alternative fuel the station provides. Fuel types are given as code values.

LIST OF VALUES

VALUE BD

DESCRIPTION Biodiesel (B20 and above)

VALUE CNG

DESCRIPTION Compressed Natural Gas

VALUE E85

DESCRIPTION Ethanol (E85)

VALUE ELEC

DESCRIPTION Electric

VALUE HY

DESCRIPTION Hydrogen

VALUE LNG

DESCRIPTION Liquefied Natural Gas

VALUE LPG

DESCRIPTION Liquefied Petroluem Gas (Propane)

FIELD Station_Na

- * ALIAS Station_Na
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The name of the station.

FIELD Street_Add

- * ALIAS Street_Add
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The street address of the station's location.

FIELD **Intersecti**

- * ALIAS **Intersecti**
- * DATA TYPE **String**
- * WIDTH **254**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

Brief additional information about how to locate the station.

FIELD **City**

- * ALIAS **City**
- * DATA TYPE **String**
- * WIDTH **254**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The city of the station's location.

FIELD **State**

- * ALIAS **State**
- * DATA TYPE **String**
- * WIDTH **254**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The two character U.S. state or Canadian province code of the station's location.

FIELD **Zip**

- * ALIAS **ZIP**
- * DATA TYPE **Double**
- * WIDTH **8**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The ZIP code (postal code) of the station's location.

FIELD **Plus4**

- * ALIAS **Plus4**
- * DATA TYPE **String**
- * WIDTH **254**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The plus-4 portion of the station's ZIP code (U.S. ZIP codes only).

FIELD **Station_Ph**

- * ALIAS **Station_Ph**
- * DATA TYPE **String**
- * WIDTH **254**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The phone number of the station.

FIELD **Status_Cod**

- * ALIAS **Status_Cod**
- * DATA TYPE **String**
- * WIDTH **254**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The current status of the station, given as code values

LIST OF VALUES

VALUE E

DESCRIPTION Open: The station is open.

VALUE P

DESCRIPTION Planned: The station is not yet open, but plans to carry alternative fuel in the future, or the station is temporarily out of service. See the "Expected Date" field for an anticipated open date.

FIELD Expected_D

* ALIAS Expected_D

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

For planned stations, the date the station is expected to open or start carrying alternative fuel.

FIELD Groups_Wit

* ALIAS Groups_Wit

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

A description of who is allowed to access the station and other station access information.

FIELD Access_Day

* ALIAS Access_Day

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Hours of operation for the station.

FIELD Cards_Acce

* ALIAS Cards_Acce

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

A space-separated list of payment methods accepted. Payment methods are given as code values as described below:

LIST OF VALUES

VALUE A

DESCRIPTION American Express

VALUE D

DESCRIPTION Discover

VALUE M

DESCRIPTION MasterCard

VALUE V

DESCRIPTION VISA

VALUE Cash

VALUE Checks

VALUE CFN

VALUE CleanEnergy

VALUE FuelMan VALUE

GasCard VALUE PHH

VALUE Voyager

VALUE Wright_Exp

FIELD Bd_Blends

* ALIAS BD_Blends

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

For biodiesel stations, the level of biodiesel blends the station provides.

FIELD NG_Fill_Ty

* ALIAS NG_Fill_Ty

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

For CNG stations, the type of dispensing capability available, given as code values.

LIST OF VALUES

VALUE Q

DESCRIPTION Quick fill

VALUE T

DESCRIPTION Timed fill

VALUE B

DESCRIPTION Both: quick fill and timed fill

FIELD NG_PSI

* ALIAS NG_PSI

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

For CNG stations, a space separated list of PSI pressures available.

FIELD EV_Level1

* ALIAS EV_Level1

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

For electric stations, the number of Level 1 EVSE (standard 110V outlet).

FIELD EV_Level2

- * ALIAS EV_Level2
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For electric stations, the number of Level 2 EVSE (J1772 connector).

FIELD EV_DC_Fast

- * ALIAS EV_DC_Fast
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For electric stations, the number of DC Fast Chargers.

FIELD EV_Other_I

- * ALIAS EV_Other_I
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For electric stations, the number and type of additional EVSE, such as:

- SP Inductive - Small paddle inductive
- LP Inductive - Large paddle inductive
- Avcon Conductive

FIELD EV_Network

- * ALIAS EV_Network
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For electric stations, the name of the EVSE network, if applicable.

FIELD EV_Netwo_1

- * ALIAS EV_Netwo_1
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For electric stations, the name of the EVSE network, if applicable.

FIELD Geocode_St

- * ALIAS Geocode_St
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A rating indicating the approximate accuracy of the latitude and longitude for the station's address, given as code values

LIST OF VALUES

VALUE GPS

DESCRIPTION The location is from a real GPS readout at the station.

VALUE 200-9

DESCRIPTION Premise (building name, property name, shopping center, etc.) level accuracy.

VALUE 200-8
DESCRIPTION Address level accuracy.

VALUE 200-7
DESCRIPTION Intersection level accuracy.

VALUE 200-6
DESCRIPTION Street level accuracy.

VALUE 200-5
DESCRIPTION ZIP code (postal code) level accuracy.

VALUE 200-4
DESCRIPTION Town (city, village) level accuracy.

VALUE 200-3
DESCRIPTION Sub-region (county, municipality, etc.) level accuracy.

VALUE 200-2
DESCRIPTION Region (state, province, prefecture, etc.) level accuracy.

VALUE 200-1
DESCRIPTION Country level accuracy.

VALUE 200-0
DESCRIPTION Unknown accuracy.

FIELD Latitude

- * ALIAS Latitude
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The latitude of the station's address (see the "Geocode Status" field for details on the latitude's accuracy).

RANGE OF VALUES

MINIMUM VALUE -99
MAXIMUM VALUE 99

FIELD Longitude

- * ALIAS Longitude
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The longitude of the station's address (see the "Geocode Status" field for details on the longitude's accuracy).

RANGE OF VALUES

MINIMUM VALUE -180
MAXIMUM VALUE 180

FIELD Date_Last

- * ALIAS Date_Last
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The date the station's details were last confirmed.

FIELD ID

- * ALIAS ID
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A unique identifier for this specific station.

FIELD Updated_At

- * ALIAS Updated_At
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The time the station's details were last updated (ISO 8601 format).

FIELD Owner_Type

- * ALIAS Owner_Type
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A space-separated list of payment methods accepted. Payment methods are given as code values.

LIST OF VALUES

VALUE P

DESCRIPTION Privately owned

VALUE T

DESCRIPTION Utility owned

VALUE FG

DESCRIPTION Federal government owned

VALUE LG

DESCRIPTION Local government owned

VALUE SG

DESCRIPTION State government owned

VALUE J

DESCRIPTION Jointly owned (combination of owner types)

FIELD Federal_Ag

- * ALIAS Federal_Ag
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

If the station is owned by a federal agency, a record for the federal agency that owns this station. See federal_1 for response details.

FIELD Federal_1

- * ALIAS Federal_1
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

If the station is owned by a federal agency, a record for the federal agency that owns this station.

FIELD Open_Date

- * ALIAS Open_Date
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

date open

FIELD Hydrogen_S

- * ALIAS Hydrogen_S
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD NG_Vehicle

- * ALIAS NG_Vehicle
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For CNG and LNG stations, the maximum vehicle size that can physically access the fueling infrastructure, given as code values as described below:

Note: This field does not take into account station capacity or other considerations.

DESCRIPTION SOURCE

DOE

LIST OF VALUES

VALUE LD

DESCRIPTION Station can only accommodate light-duty vehicles (Classes 1-2).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE DOE

VALUE MD

DESCRIPTION Station can accommodate light- and medium-duty vehicles (Classes 1-5).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE DOE

VALUE HD

DESCRIPTION Station can accommodate light-, medium-, and heavy-duty vehicles (Classes 1-8).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE DOE

FIELD LPG_Primary

- * ALIAS LPG_Primary
- * DATA TYPE SmallInteger
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

For propane stations, the type of station, given as a boolean:

LIST OF VALUES

VALUE True

DESCRIPTION Primary: A propane station is considered primary because it meets the following criteria, developed based on feedback from the propane industry:

VALUE False

DESCRIPTION Secondary: The station does not meet the criteria to be considered primary.

FIELD E85_Blende

* ALIAS E85_Blende

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

For E85 stations, an indication of whether the station has a blender pump on site, given as a boolean:

LIST OF VALUES

VALUE true

DESCRIPTION In addition to E85, the station has a blender pump capable of providing mid-level ethanol blends.

VALUE false

DESCRIPTION The station does not have a blender pump.

FIELD EV_Connect

* ALIAS EV_Connect

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

Metadata Details

* METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2016-07-26

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2016-03-22 10:13:11

LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-07-26 13:58:38

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2016-07-26 13:57:54

Metadata Contacts

METADATA CONTACT

INDIVIDUAL'S NAME Andrew Hudgins

ORGANIZATION'S NAME National Renewable Energy Laboratory (NREL)

CONTACT'S ROLE originator

CONTACT INFORMATION

PHONE

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Metadata Maintenance

MAINTENANCE

UPDATE FREQUENCY continual
MAINTENANCE CONTACT
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Metadata Constraints

CONSTRAINTS

LIMITATIONS OF USE
None