INSTRUMENT LANDING SYSTEM (ILS) DATA

COMMA-SEPARATED VALUES (CSV) RECORD LAYOUT

(ILS-FILES)

INFORMATION EFFECTIVE DATE: 12/28/2023

RECORD FORMAT: COMMA DELIMITED WITH TEXT FIELDS ENCLOSED WITHIN DOUBLE-QUOTE CHARACTERS

LOGICAL RECORD INTERVAL: ALL RECORDS WITHIN A SPECIFIC ILS FILE HAVE THE SAME NUMBER OF FIELDS, IN THE SAME ORDER AND RECORD ENDS AT A LINE TERMINATOR

DATA HEADERS: FIRST ROWS CONTAIN FIELD NAMES

ILS FILES: ILS_BASE, ILS_GS, ILS_DME, ILS_MKR, ILS_RMK

COMMON TO ALL ILS FILES: EFF_DATE, SITE_NO, SITE_TYPE_CODE, STATE_CODE, ARPT_ID, CITY, COUNTRY_CODE, RWY_END_ID, ILS_LOC_ID, SYSTEM_TYPE_CODE

GENERAL INFORMATION:

1. The ILS_*.csv files were designed to replace the legacy ILS.txt Subscriber File.
2. The Ordered By list for each ILS FILE documented below is also the Unique Record Key.
3. ILS_*.csv files contain the data found in the legacy ILS.txt Subscriber File. Data while comparable to the legacy ILS.txt is in some cases organized and presented in a different way.
4. Please enter any feedback in the Aeronautical Information Portal.
   https://nfdc.faa.gov/nfdcApps/controllers/PublicSecurity/nfdcLogin

FIELD DESCRIPTIONS

COMMON TO ALL

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EFF_DATE – The 28 Day NASR Subscription Effective Date in format 'YYYY/MM/DD'.

SITE_NO – Landing Facility Site Number. A unique identifying number.

SITE_TYPE_CODE – Landing Facility Type Code.

CODE	FACILITY
A	AIRPORT
B	BALLOONPORT
C	SEAPLANE BASE

G	GLIDERPORT
H	HELIPORT
U	ULTRALIGHT

STATE_CODE – Associated State Post Office Code standard two letter abbreviation for US States and Territories.

ARPT_ID – Location Identifier. Unique 3-4 character alphanumeric identifier assigned to the Landing Facility.

CITY – Associated City Name

COUNTRY_CODE - Country Post Office Code

RWY_END_ID – ILS Runway End Identifier

ILS_ID – ILS Identification

SYSTEM_TYPE_CODE – ILS System Type.

System Type Code	System Type	Description
LS	ILS	Instrument Landing System
SF	SDF	Simplified Directional Facility
LC	LOC	Localizer
LA	LDA	Localizer-Type Directional Aid
LD	ILS/DME	Instrument Landing System/Distance Measuring Equipment
SD	SDF/DME	Simplified Directional Facility/Distance Measuring Equipment
LE	LOC/DME	Localizer/Distance Measuring Equipment
LG	LOC/GS	Localizer/Glide Slope
DD	LDA/DME	Localizer-Type Directional Aid/Distance Measuring Equipment

ILS_BASE ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID

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STATE_NAME – Associated State Name

REGION_CODE – FAA Region responsible for NAVAID (code)

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          CODE      REGION NAME
          ----      -----------
          AAL       ALASKA
          ACE       CENTRAL
          AEA       EASTERN
          AGL       GREAT LAKES
          ANE       NEW ENGLAND
          ANM       NORTHWEST MOUNTAIN
          ASO       SOUTHERN
          ASW       SOUTHWEST
          AWP       WESTERN-PACIFIC
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RWY_LEN – ILS Runway Length in Whole Feet

RWY_WIDTH – ILS Runway Width in Whole Feet

CATEGORY – Category of the ILS

OWNER – A Concatenation of the ILS OWNER CODE - ILS OWNER NAME

OPERATOR – A Concatenation of the ILS OPERATOR CODE - ILS OPERATOR NAME

APCH_BEAR – ILS Approach Bearing in Degrees Magnetic

MAG_VAR – Magnetic Variation Degrees

MAG_VAR_HEMIS – Magnetic Variation Direction

COMPONENT_STATUS – Operational Status of Localizer

COMPONENT_STATUS_DATE – Effective Date of Localizer Operational Status

LAT_DEG – Localizer Antenna Latitude Degrees

LAT_MIN – Localizer Antenna Latitude Minutes

LAT_SEC – Localizer Antenna Latitude Seconds

LAT_HEMIS – Localizer Antenna Latitude Hemisphere

LAT_DECIMAL – Localizer Antenna Latitude in Decimal Format

LONG_DEG – Localizer Antenna Longitude Degrees

LONG_MIN – Localizer Antenna Longitude Minutes

LONG_SEC – Localizer Antenna Longitude Seconds

LONG_HEMIS – Localizer Antenna Longitude Hemisphere

LONG_DECIMAL – Localizer Antenna Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

```
            CODE      SOURCE
            ----      ----------
            A         AIR FORCE
            C         COAST GUARD
            D         CANADIAN AIRAC
            F         FAA
            FS        TECH OPS (AFS-530)
            G         NOS (HISTORICAL)
            K          NGS
            M         DOD (NGA)
            N         US NAVY
            O         OWNER
            P         NOS PHOTO SURVEY (HISTORICAL)
            Q         QUAD PLOT (HISTORICAL)
            R         ARMY
            S         SIAP
            T         3RD PARTY SURVEY
            Z         SURVEYED
```

SITE_ELEVATION – Site Elevation of Localizer Antenna in Tenth of a Foot (MSL).

LOC_FREQ – Localizer Frequency (MHZ)

BK_COURSE_STATUS_CODE - Localizer Back Course Status

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            CODE      STATUS
            ----      ----------
            N         NO RESTRICTIONS
            R         RESTRICTED
            U         UNUSABLE
            Y         USABLE
```

ILS_GS ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID

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COMPONENT_STATUS – Operational Status of Glide Slope

COMPONENT_STATUS_DATE – Effective Date of Glide Slope Operational Status

LAT_DEG – Glide Slope Transmitter Antenna Latitude Degrees

LAT_MIN – Glide Slope Transmitter Antenna Latitude Minutes

LAT_SEC – Glide Slope Transmitter Antenna Latitude Seconds

LAT_HEMIS – Glide Slope Transmitter Antenna Latitude Hemisphere

LAT_DECIMAL – Glide Slope Transmitter Antenna Latitude in Decimal Format

LONG_DEG – Glide Slope Transmitter Antenna Longitude Degrees

LONG_MIN – Glide Slope Transmitter Antenna Longitude Minutes

LONG_SEC – Glide Slope Transmitter Antenna Longitude Seconds

LONG_HEMIS – Glide Slope Transmitter Antenna Longitude Hemisphere

LONG_DECIMAL – Glide Slope Transmitter Antenna Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

CODE	SOURCE
A	AIR FORCE
C	COAST GUARD
D	CANADIAN AIRAC
F	FAA
FS	TECH OPS (AFS-530)
G	NOS (HISTORICAL)
K	NGS
M	DOD (NGA)
N	US NAVY
O	OWNER
P	NOS PHOTO SURVEY (HISTORICAL)
Q	QUAD PLOT (HISTORICAL)
R	ARMY
S	SIAP
T	3RD PARTY SURVEY
Z	SURVEYED

SITE_ELEVATION – Site Elevation of Glide Slope Transmitter Antenna in Tenth of a Foot (MSL).

G_S_TYPE_CODE - Glide Slope Class/Type

TYPE	DESCRIPTION
GLIDE SLOPE	STANDARD GLIDE SLOPE.
GLIDE SLOPE/DME	GLIDE SLOPE WITH DISTANCE MEASURING EQUIPMENT.

G_S_ANGLE – Glide Slope Angle in Degrees and Hundredths of Degree

G_S_FREQ – Glide Slope Transmission Frequency

ILS_DME ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID

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COMPONENT_STATUS – Operational Status of DME

COMPONENT_STATUS_DATE – Effective Date of DME Operational Status

LAT_DEG – DME Transponder Antenna Latitude Degrees

LAT_MIN – DME Transponder Antenna Latitude Minutes

LAT_SEC – DME Transponder Antenna Latitude Seconds

LAT_HEMIS – DME Transponder Antenna Latitude Hemisphere

LAT_DECIMAL – DME Transponder Antenna Latitude in Decimal Format

LONG_DEG – DME Transponder Antenna Longitude Degrees

LONG_MIN – DME Transponder Antenna Longitude Minutes

LONG_SEC – DME Transponder Antenna Longitude Seconds

LONG_HEMIS – DME Transponder Antenna Longitude Hemisphere

LONG_DECIMAL – DME Transponder Antenna Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

CODE	SOURCE
----	----------
A	AIR FORCE
C	COAST GUARD
D	CANADIAN AIRAC
F	FAA
FS	TECH OPS (AFS-530)
G	NOS (HISTORICAL)
K	NGS
M	DOD (NGA)
N	US NAVY
O	OWNER
P	NOS PHOTO SURVEY (HISTORICAL)
Q	QUAD PLOT (HISTORICAL)
R	ARMY
S	SIAP
T	3RD PARTY SURVEY
Z	SURVEYED

SITE_ELEVATION – Site Elevation of DME Transponder Antenna in Tenth of a Foot (MSL).

CHANNEL – NAS Channel on Which Distance Data is Transmitted

ILS_MKR ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID, ILS_COMP_TYPE_CODE

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ILS_COMP_TYPE_CODE – Marker Type (IM - Inner Marker, MM - Middle Marker, OM - Outer Marker)

COMPONENT_STATUS – Operational Status of Marker Beacon

COMPONENT_STATUS_DATE – Effective Date of Marker Beacon Operational Status

LAT_DEG – Marker Beacon Latitude Degrees

LAT_MIN – Marker Beacon Latitude Minutes

LAT_SEC – Marker Beacon Latitude Seconds

LAT_HEMIS – Marker Beacon Latitude Hemisphere

LAT_DECIMAL – Marker Beacon Latitude in Decimal Format

LONG_DEG – Marker Beacon Longitude Degrees

LONG_MIN – Marker Beacon Longitude Minutes

LONG_SEC – Marker Beacon Longitude Seconds

LONG_HEMIS – Marker Beacon Longitude Hemisphere

LONG_DECIMAL – Marker Beacon Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

CODE	SOURCE
A	AIR FORCE
C	COAST GUARD
D	CANADIAN AIRAC
F	FAA
FS	TECH OPS (AFS-530)
G	NOS (HISTORICAL)
K	NGS
M	DOD (NGA)
N	US NAVY
O	OWNER
P	NOS PHOTO SURVEY (HISTORICAL)
Q	QUAD PLOT (HISTORICAL)
R	ARMY
S	SIAP
T	3RD PARTY SURVEY
Z	SURVEYED

SITE_ELEVATION – Site Elevation of Marker Beacon in Tenth of a Foot (MSL).

MKR_FAC_TYPE_CODE - Facility/Type of Marker/Locator

CODE	TYPE	DESCRIPTION
M	MARKER	MARKER BEACON ONLY
C	COMLO	COMPASS LOCATOR
R	NDB	NONDIRECTIONAL RADIO BEACON
MC	MARKER/COMLO	MARKER/ COMPASS LOCATOR
MR	MARKER/NDB	MARKER/ NONDIRECTIONAL RADIO BEACON

MARKER_ID_BEACON – Location Identifier of Beacon at Marker

COMPASS_LOCATOR_NAME - Name of the Marker Locator Beacon

FREQ –NAVAID Frequency when Marker is collocated else Locator Frequency (in KHZ)

NAV_ID - Location Identifier of Navigation Aid Collocated With Marker (Blank Indicates Marker Is Not Collocated With A NAVAID)

NAV_TYPE – Collocated NAVAID Type

LOW_POWERED_NDB_STATUS - Low Powered NDB Status of Marker Beacon

ILS_RMK ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID, TAB_NAME, ILS_COMP_TYPE_CODE, REF_COL_NAME, REF_COL_SEQ_NO

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TAB_NAME – NASR table associated with Remark.

ILS_COMP_TYPE_CODE – TAB_NAME with the Exception of ILS will designate a specific Component Type that the Remark refers to.

REF_COL_NAME – NASR Column name associated with Remark. Non-specific remarks are identified as GENERAL_REMARK.

REF_COL_SEQ_NO – Sequence number assigned to Reference Column Remark.

REMARK – Remark Text (Free Form Text that further describes a specific Information Item.)