LA VERSION FRANCAISE SUIVRA PROCHAINEMENT

DGRB/DGSE

Technical Information Service Catalog Item 20 Broadcast Data Extract (AM-FM-TV)

USER MANUAL Version 3.0

Revised September 1994

Original by: Jean-Marc Paquet

Revisions by: J.-M. Paquet/D.Bergeron/G.Wood

Filename: M:\OPER\MANUALS\BDBS_EXT.WP

BROADCAST DATA EXTRACT (AM-FM-TV)

USER MANUAL

TABLE OF CONTENTS

	PA	GΕ
1.0	INTRODUCTION	
2.0	DISTRIBUTION AND MEDIA	. 1
3.0	DATA AND FILE ORGANIZATION	. 1
4.0	ANTENNA PATTERNS 4.1 Omnidirectional Patterns 4.2 Vertical Patterns 4.3 "THEORETICAL " Patterns 4.4 "BRIEF"/"PRECISE" Patterns	8 8 9
5.0	FUTURE PLANS	. 9
6.0	ALS DATA EXTRACT	. 9
7.0	SUPPORT UTILITIES	. 9
8.0	CONTOURS ACCURACY	10
AP	PENDIX 1	11
A.0	CONDUMP PROGRAM A.1 dBASE-to-ASCII Batch File A.2 Program Inputs A.3 Program Outputs A.4 Technical Requirements A.5 CONFIG.SYS	11 11 11 12 13 13
B.0	INDEXIT PROGRAM B.1 Program Inputs B.2 Program Outputs B.3 Technical Requirements B.4 Provided Batch File B.5 Sample Program Call	14 14 14 14 15 15
C.0	BDBS RECORD LAYOUTS	16
D 0	ALS DATA FYTRACT	25

1.0 INTRODUCTION

The purpose of this manual is to describe the file organization and contents of the Broadcast Data Extract (AM-FM-TV). The data being provided is extracted from the Broadcast (AM-FM-TV) database system, commonly called BDBS. The Data Extract is sold to the Industry Canada (I.C.) clients on a yearly subscription basis by the Technical Information Service (DBC-E/TIS)

1.1 Changes

The BDBS extract is now provided in the same dBASEIII format that is used at Industry Canada.

The Consultant ASCII conversion program CONDUMP, is still provided but since it is no longer supported, it is now described in Appendix 1.

2.0 DISTRIBUTION AND MEDIA

The data extract is delivered as one complete copy of the data four times during the fiscal year.

The current media for distribution is DOS (Disk Operating System) formatted diskettes of 1.2 or 1.44 MB capacity. In the future, the data will be delivered on higher density media depending on demand (CD). Plans also call for the on-line BBS to be replaced by an Internet FTP site permitting easy access across Canada.

3.0 DATA AND FILE ORGANIZATION

The data comes from the Broadcast (AM-FM-TV) database system (BDBS) and is stored in dBASEIII format. The main index used to identify data is the station Call Sign. To uniquely identify stations, a two letter code (Banner) is added to the end of the Call Sign.

This Call Sign-Call Flag combination is used as the main index for Broadcast data.

3.1 Data Restrictions

Data on applications under consideration is confidential, and is not included in the data extract. In the contours data table, negative values may appear in some Grade A, Grade B, 3000mV/m and 500mV/m contours. They indicate that those values are realistic contours. These negative contour points were calculated with a method different than the use of F(50,50) curves for TV and FM. Methods like Bullington or other propagation calculation programs were used.

In the future, a decision will be made to store only realistic contours, or to store separately F(50,50) and realistic contours under different names. AM service contours are currently not included in the data extract.

AM contours are being digitized for Digital Radio Broadcast (DRB) planning and will be made available as they are stored in the BDBS.

The BDBS and extract currently does not contain U.S. station contours. Negotiations are under way to see if they are available and can be included in the data extract.

As volume of data increases, it may become necessary to split the contours database table (CONTOURS.DBF) into three separate files for AM-FM-TV.

3.2 File Organization

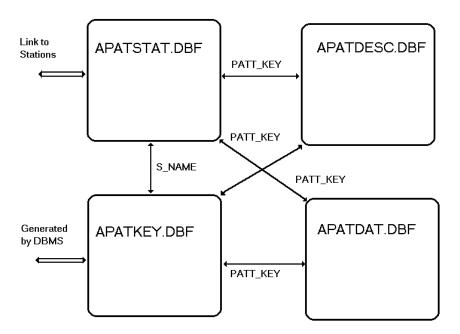
The BDBS LAN system uses a standard dBASE storage format for the Broadcast data. The dBASE format of data storage was selected as being the most commonly used among PC users.

A file called BDBS EXT.WP is provided with each full extract and provides descriptions of all the files produced.

FILE	DESCRIPTION
DBFPRINT.ZIP	Display utility for dBase files
DBSTP032.ZIP	Display/Write to a file the dBase structure
AMSTATIO.DBF	Main station information for AM stations
APATDAT.DBF	Data records for pattern points (FM, TV)
APATDESC.DBF	Description record of patterns
APATSTAT.DBF	Link of pattern keys to call sign/banners
APATSTA2.NTX	Index of pattern keys
AUGMENT.DBF	AM station augmentations
CITY.DBF	Lookup table for station locations
COMMENTS.DBF	Comments of all station types
COMMENTS.DBT	Memo fields of COMMENTS.DBF
CONTOURS.DBF	Station contours of FM and TV stations
EXTEND.DBF	AM stations extended hours of operation
FEEDS.DBF	Source of feed signals
FMSTATIO.DBF	Main station information for FM stations
PARAMS.DBF	AM stations parameters (towers information)
PROVINCE.DBF	Lookup table for all stations
REGION.DBF	Data that regional users supply
REGION1.NTX	Index of regional files by CALLS_BANR
TVSTATIO.DBF	Main station information for TV stations
BDBS.DD	Data Dictionary
CONDUMP.EXE	Program to create ASCII files
CONS_DEF.DBF	Controlling database file to govern processing
DB_2_ASC.BAT	Batch file for the CONDUMP conversion step
PKUNZIP.EXE	Program to unzip compressed files
BDBS_EXT.WP	This file
E-LIMFMC.TXT	English text describing limitations to FM stations in Canada
E-LIMFMU.TXT	English text describing limitations to FM stations in the United States
F-LIMFMC.TXT	French text describing limitations to FM stations in Canada
F-LIMFMU.TXT	French text describing limitations to FM stations in the United States
E_LIMITS.TXT	English text describing limitations to TV stations in Canada
F_LIMITS.TXT	French text describing limitations to TV stations in Canada
INDEXIT.EXE	Index dBase file
MAKENTX.BAT	Batch file to index files

4.0 ANTENNA PATTERNS

More and more TV and FM stations are using directional antennas. For this reason, a TV/FM directional antenna pattern database has been implemented. This database contains data on horizontal and vertical antenna patterns.



TV/FM Antenna pattern data is stored as relational information in four data files, APATSTAT.DBF, APATDESC.DBF, APATDAT.DBF and APATKEY.DBF. The diagram above shows the four data files along with the relationship existing between them.

Each TV/FM antenna pattern when added to the database is assigned a unique integer value referred to as the antenna pattern key (PATT_KEY). The pattern key permits to quickly identify and locate the antenna pattern information specific to a given station.

Record Layouts

APATKEY

The APATKEY file serves two purposes. First, it is used to maintain a listing of the *theoretical* antenna patterns currently saved in the database. Secondly, it is used to save the highest antenna pattern key currently assigned in the database (always stored in the very last record in the file). APATKEY is normally accessed to perform one of the following three operations:

- 1- To calculate a unique antenna pattern key to be assigned to a new theoretical or measured pattern being added to the database. The new key value is the key value retrieved from APATKEY last record incremented by one.
- 2- To obtain the antenna pattern key of a theoretical pattern. This is needed when adding a station having a theoretical pattern to the antenna pattern database.
- 3- To update the theoretical antenna patterns listing whenever adding or removing a theoretical pattern from the database.

Field #	Field Name	Type	Width	Description
1	S_NAME	С	12	'Special Name' field normally containing the name of the theoretical antenna patterns. The only exception is the file last record which contains the text 'LASTKUSED' indicating that the record holds the highest pattern key assigned.
2	PATT_KEY	N	6	Pattern key assigned to the theoretical pattern identified by the S_NAME field.

TABLE 1: APATKEY.DBF data fields.

The associated indexing file APATKEY1.NTX indexed on the S_NAME field permits to search for a theoretical pattern or for the 'LASTKUSED' record.

The associated indexing file APATSTA1.NTX indexed on the CALLS_BANR field permits to search for any given station call sign and banner combination.

APATKEY Data Sample:

S_NAME	PATT_KEY
OMNI	1
BAY-01	2
BAY-02	3
BAY-03	4
BAY-04	5
BAY-05	6
BAY-06	7
LASTKUSED	2542

APATSTAT The APATSTAT.DBF file is basically a reference table providing 'station call sign' versus 'antenna pattern key' information. It permits to determine what antenna pattern key has been assigned to a given FM or TV station given the call sign and banner of the station.

Field #	Field Name	Type	Width	Description
1	CALLS_BANR	С	14	Station call sign (12 char.) concatenated with the station banner (2 char.).
2	PATT_KEY	N	6	Pattern key assigned to the station identified by the call sign and banner.

TABLE 2: APATSTAT.DBF data fields.

The associated indexing file APATSTA1.NTX indexed on the CALLS_BANR field permits to search for any given station call sign and banner combination. Another indexing file, APATSTA2.NTX has an index build on the file's two fields: CALLS_BANR + STR(PATT_KEY)

APATSTAT Data Sample:

CALLS_BANR	PATT_KEY
CBCQ-TV-1 OP	1794
CBCQ-TV-1 OP	2405
CBCT OP	92
CBCT OP	176
CBCT-1 OP	93
CBCT-1 OP	1765
CBCT-1 OP	2371

APATDESC The APATDESC file contains a single "header" type record describing the attributes of the antenna patterns. All the parameters describing the patterns are found in this file with the exception of the data points describing the actual patterns.

Field #	Field Name	Type	Width	Description	
1	PATT_KEY	N	6	Pattern key.	
2	HOR_VER	С	1	Orientation. "H" for horizontal and Date pattern added to system "V" for vertical.	
3	PATT_NUM	N	1	*Future use.	
4	PATT_TYPE	С	12	Type of pattern: 'PRECISE', 'BRIEF', 'THEORETICAL'.	
5	PUNITS	N	1	*Future use.	
6	NUMPOINTS	N	3	Number of points in the pattern.	
7	PATT_DATE	D	8	Date pattern added to system	

TABLE 3: APATDESC.DBF data fields.

Note that PATT_NUMB and PUNITS are currently not used, and should not be counted on to contain valid data.

The associated indexing file APATDES1.NTX indexed on the PATT_KEY field permits to do a search based on the pattern key.

APATDESC Data Sample:

PATT_KEY	HOR_VER	PATT_NUMB	PATT_TYPE	PUNITS	NUMPOINTS	PATT_DATE
1	Н	1	THEORETICAL	1	180	1/05/87
2	V	1	THEORETICAL	1	181	10/19/87
1794	Н	0	PRECISE	1	65	01/07/94
2405	V	1	PRECISE	1	181	02/10/94
92	Н	1	BRIEF	1	8	1/02/87
93	Н	1	BRIEF	1	8	1/02/87
176	Н	1	BRIEF	1	8	1/23/90
1765	Н	0	PRECISE	1	45	01/31/94
2371	V	1	PRECISE	1	181	02/18/94

APATDAT This file contains the 'gains' versus 'angle' data points defining the patterns. The record format permits to store one data point per record, therefore the storage of one pattern requires as many records as there are data points.

Field #	Field Name	Туре	Width	Description
1	PATT_KEY	N	6	Pattern key.
2	ANGLE	N	8	Pattern data point azimuth from true north (degrees).
3	GAIN	N	12	Pattern data point gain at the given angle (dB).

TABLE 4: APATDAT.DBF data fields.

Two indexing files are associated with APATDAT.DBF. APATDA1.NTX is indexed on the PATT_KEY field and APATDA2.NTX is indexed on a key derived from two fields: STR(PATT_KEY,6) + STR(ANGLE,8,4)

APATDAT Data Sample:

PATT_KEY	ANGLE	GAIN
92	0.000	0.000
92	45.000	0.000
92	90.000	-1.9382
92	135.000	-9.354
92	180.000	-9.9601
92	25.00	-9.354
92	270.00	-1.9382
92	315.00	0.00
93	0.00	-9.837
93	45.00	-5.5128
93	90.0	-1.6858

Antenna Pattern Usage

As part of the analysis of broadcast undertakings, antenna pattern data is lifted from tables in the brief or digitized from diagrams of the horizontal and vertical pattern.

The PATT_TYPE field gives information on the source and/or relative prevision of the antenna pattern data.

When no vertical antenna pattern data appears in the brief, a theoretical pattern for an antenna with the same number of bays is selected. In this case PATT_TYPE is set to "THEORETICAL".

4.1 Omnidirectional Patterns

In the case of an Omnidirectional antenna, the Effective Radiated Power value from the main database is assumed to be the same for all azimuths. For this reason, no Horizontal pattern data is stored for Omnidirectional stations.

4.2 Vertical Patterns

As described in the record layouts, the HOR_VER field is used to indicate a (H)orizontal or (V)ertical pattern. It is possible that a station with an Omnidirectional antenna may still have a Vertical antenna pattern, and this is supported.

4.3 "THEORETICAL" Patterns

Very often measured patterns are not available at the time of the brief's analysis. In such cases, the department uses theoretical vertical patterns based on the Cosine Law. They have names from BAY-2 to BAY-12, corresponding to the theoretical vertical patterns of a two bay antenna, up to that of a twelve bay antenna.

4.4 "BRIEF"/"PRECISE" Patterns

When pattern values area taken from a table in a technical brief, PATT_TYPE is set to "BRIEF". If the values are digitized from antenna diagrams, PATT_TYPE is set to "PRECISE".

5.0 FUTURE PLANS

BDBS is being converted to Oracle. The dBASE BDBS extract will continue to be produced under Oracle operations.

6.0 ALS DATA EXTRACT

This section refers to data obtained from the department's ALS (Automated Licensing System) database. This data is used in TV/LAND Mobile incompatibility studies and in non-ionizing radiation reports. The data is updated on a daily basis by the primary users. Complete extracts are obtained on a monthly basis. The data contains more than 240,000 records.

The Broadcast version resides in a 32MB dBASE file. At the present time, the ALS extract cannot list frequencies used by Police and other security agencies. Therefore, only records with divulgation code set to "1" will be released.

It is hoped that this data will be made available on CD media in the near future. Appendix 1 part D. describes ALS Data Extract record layouts.

7.0 SUPPORT UTILITIES

Other AM/FM/TV engineering analysis programs area available through the DGRB/DGSE Technical Information Service (DBC-E/TIS). These programs have been revised to operate on the dBASE format data as provided in the Data Extract. For these programs to operate correctly, they require data indexes to exist for the dBASE formatted data files.

For reasons of efficient data distribution, these indexes are not provided on diskette when the Extract is sent out. Instead, an index creation program and batch file are supplied. Refer to the Appendix for information on the use of this Indexing utility.

Note that all support utilities included with the Data Extract are Shareware programs or programs written by Industry Canada staff or contractors. They have been tested at Industry Canada and to the best of our knowledge operate as described. They are provided for your convenience. Industry Canada, its employees, and contractors assume no responsibility for any loss or damage resulting from the use of these products, however caused.

8.0 CONTOURS ACCURACY

Note that the information stored in the CONTOURS.DBF file fields LAT_END and LONG_END are **decimal degrees** values representing the derived lattitude and longitude for that contour point. The point is described by the azimuth and distance stored in the same record, as calculated from the station site.

Differences in the values between the Contour file LONG_END (for azimuth of 0) and the longitude for the station site are to be expected since the station site longitude is stored as **DDMMSS** values. While the two longitudes appear to be different, they represent the same value in their respective units of storage.

APPENDIX 1

A.0 CONDUMP PROGRAM

The CONDUMP program was developed to 'dump' Broadcast information stored in dBASE format to ASCII file format, identical to the ASCII files distributed in the past. Since current policy is to discontinue the distribution of ASCII files, this program is offered to allow Consultant firms to perform their own conversion of dBASE files to ASCII format if desired.

The CONDUMP program creates ASCII files according to the specifications in document "Data Dump to Satisfy Outside Requests for Data, December 1986".

A.1 dBASE-to-ASCII Batch File

A batch file called DB_2_ASC.BAT is included with the dBASE files and CONDUMP program. Use this batch file, or refer to it to create your own file, when running the CONDUMP program.

Sample DB_2_ASC.BAT

```
@ECHO OFF
::
:: Batch file for the CONDUMP (Consultant Formatted dump) conversion step.
:: Note the DOS variable set below: EXTRCT represents
:: the disk directory where the input (DBF) files are located.
:: This batch file assumes that you are located in the same directory as the CONDUMP.EXE and CONS_DEF.DBF files.
:: SET CLIPPER=V010;F065;E1000
SET EXTRCT=X:\TEMP
:: CONDUMP
:: :END
SET CLIPPER=
SET CLIPPER=
SET EXTRCT=
:: A file called README.PLS (Read me, please) is provided with each full extract or update and
```

A.2 Program Inputs

The CONDUMP program uses a controlling database file to govern processing. The file name is CONS_DEF.DBF, and it must be located in the same directory as the program file CONDUMP.EXE.

The program inputs are the data files (.DBF files) included on the distribution diskette. Note that the program searches for these files in the directory specified by DOS environment variable EXTRCT (eg. "D:\TEMP" or "L:\BCST\EXTRACT\DATA").

provides descriptions of all the files produced.

A.3 Program Outputs

Three ASCII files are produced; AM_DUMP.ASC, FM_DUMP.ASC and TV_DUMP.ASC. They contain the dumped records for the three station types. These files are created in the current DOS directory where the CONDUMP program is executed.

The three major files, AM_DUMP.ASC, FM_DUMP.ASC and TV_DUMP.ASC provide information on stations in operation or authorized for operation.

The Record Layouts are listed in order of increasing number.

- Records 01 to 11 describe AM data,
- Records 21 to 31 describe FM data,
- Records 41 to 52 describe TV data.

The data is stored in ASCII code format and is separated in records of a length of 80 characters. Each record is numbered and corresponds to a group of data and to a type of station. The following table lists all the records available:

Record Content]	Record Number	
	AM	FM	TV
Station Data Feeds Information AM Antenna Parameters Augmentation Data Extended Hours of Operation Data Applicant Name (comment no. 1) Details on Limitations EHAT Contour Data 3 mV/m Service Contour Data (S3) 500 uV/m Service Contour Data (S500) A Service Contour Data B Service Contour Data	01+02+03 04 05 06 10	21+22+23 26 28 30 31	41+42+43 44 47 47 49 51 52

Several records are created for each station. For every station, the first record indicates how many records are following (last field in records 01, 21 and 41).

Records 04, 05 and 06 for AM, 28 to 31 for FM, and 44 and 49 to 52 for TV can be repeated.

This is because these records list variables data that can have multiple occurrences (i.e. antenna parameters and augmentation).

A.4 Technical Requirements

To run the CONDUMP program, the following requirements should be met:

Free disk space should be at least equal to the size of the DBF database files to be converted.

Free conventional (low) RAM memory on your PC should be at least 480K.

DOS 3.3 or higher should be used.

The program should run in a DOS window if you prefer using Windows, assuming other requirements are met. Expect some performance slowdown if using this approach.

A.5 CONFIG.SYS

If using DOS 6.x and EMM386 (see CONFIG.SYS file), ensure the NOVCPI keyword is used in the EMM386 device statement in CONFIG.SYS.

ie. DEVICE=C:\DOS\EMM386.EXE NOEMS *NOVCPI*

The CONFIG.SYS file should contain the following FILES and BUFFERS specifications as a minimum:

FILES=55 BUFFERS=20

B.0 INDEXIT PROGRAM

The INDEXIT program was developed to create index files for Broadcast data files stored in dBASE format. The program will operate on any xBase compatible database file.

B.1 Program Inputs

The program requires four parameters to control its operation as shown by the following syntax:

INDEXIT <DBFName ><Key Expression><Index name><[C|D]><[U]>

where

C|D = > Clipper (NTX) | dBASE (NDX) type indexing

U = Unique (No duplicate keys)

the fifth parameter <U> is optional and is not required.

Note that both <DBFName> and <Index name> may contain DOS path specifications. If no path information is provided, the current directory is assumed.

<Key Expression> must be a valid xBase expression. It may be a compound expression or a simple field name, but must meet xBase syntax requirements.

B.2 Program Outputs

INDEXIT creates the named index file<Index name>, based on the index expression <Key Expressions>. The file extension of the index file will be ".NTX" if a Clipper stye index was selected, or ".NDX" if a dBASE style was selected. The file is created in the current directory unless a path is specified as part of the file name.

A brief screen display appears to describe the indexing activity.

B.3 Technical Requirements

To run the INDEXIT program, the following requirements should be met:

Free disk space should be at least equal to the size of the anticipated index file. If in doubt, free disk space should equal or exceed the size of the database being indexed.

Free conventional (low) RAM memory on your PC should be at least 480K. DOS 3.3 or higher should be used.

The program should run in DOS windows if you prefer using Windows, assuming other requirements are met. Expect some performance slowdown if using this approach.

If INDEXIT is operating on a LAN, it assumes that it will have exclusive access to the database file being indexed. If it cannot gain this exclusive use of the file, no indexing is performed and the program returns an error code (DOS errorlevel) of 1.

Note that while the INDEXIT program does not overwrite any database information, any problems resulting from its usage are not the responsibility of Industry Canada or the author of the program.

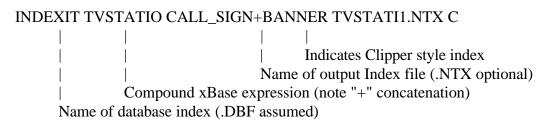
B.4 Provided Batch File

A batch file named MAKENTX.BAT is provided with the INDEXIT program to show correct usage of the program. It may be used as a model for developing Indexing batch files for other applications. Part of the file is shown below as an illustration.

Not that if the desired index key is a compound expression (more than one field), the field names may be concatenated as shown in the italicized program call. Also note that NO imbedded blanks are permitted in the compound expression.

@ECHO OFF :: ::Creates required index files for IC supported ::programs. Assumes INDEXIT.EXE and databases are in current directory :: INDEXIT apatstat CALL_BANR APATSTA1.NTX C INDEXIT apatkey S_NAME APATKEY1.NTX C INDEXIT FMSTATIO CALL_SIGN+BANNER FMSTATI1.NTX C INDEXIT TVSTATIO CALL_SIGN+BANNER TVSTATI1.NTX C :: :END

B.5 Sample Program Call



C.0 BDBS RECORD LAYOUTS

	ΓATIO.DBF " <i>I</i> FIELD NAME	TYPE	LEN	DEC	Main station info for AM stations.
1	PROVINCE	С	2	0	Province / State
2	CITY	С	20	0	City name
	CALL_SIGN		12	0	Call sign of station
	FREQUENCY	N	7	2	Frequency in kHz. Valid 530 to 1700.
	CLASS	C	3	0	Class (A, B, C, CC, LP)
6	LATITUDE	N	7	0	N.Latitude of the AM Station's Transmitter.(ddmmss)
7	LONGITUDE	N	8	0	W.Longitude of the AM Station's Transmitter(dddmmss)
8	BANNER	С	2	0	Banner flag (A, C, O, P)
	STATUS1	C	2	0	Application Status day-time
		C	2	0	
	STATUS2	_			Application Status night-time
11	LATITUDE2	N	7	0	Day-time N.latitude coordinate in degrees if site different than night-time site.
12	LONGITUDE2	N	8	0	Day-time W.longitude coordinate in degrees if site different than night-time site.
13	BRDR_LAT	N	7	0	Latitude used when BORDER last calculated
	BRDR LONG	N	8	0	Longitude used when BORDER last calculated
	BORDER	N	7	1	Closest distance to Canada US Border(km)
			7	1	Closest distance to Canada Land Edge
	CAN_LAND				
	USA_LAND	N	7	1	Closest distance to USA Land Edge
18	FRE_LAND	N	7	1	Closest distance to French Land Edge near Newfoundland
19	ST_CREAT	D	8	1	Date station entered in database
20	ST MOD	D	8	1	Date station last modified
21	OK_DUMP	D	8	1	Last date of record update for the
2.2	DOG ETTE	ът	Е	0	Consultants dump
	DOC_FILE	N	5	0	I.C.'s file number
	DEC_NUMBER	N	6	0	CRTC Decision Number
24	IFRBN_D	N	5	0	IFRB Number for day time
25	IFRBN_N	N	5	0	IFRB Number for night time
26	CLIST1	N	4	0	Change List number 1
27	CLIST2	N	4	0	Change List number 2
28	CLIST3	N	4	0	Change List number 3
	CLIST4	N	4	0	Change List number 4
	CLIST5	N	4	0	Change List number 5
		N	4	0	
	CLIST6				Change List number 6
	CLIST7	N	4	0	Change List number 7
	CLIST8	N	4	0	Change List number 8
34	CLIST9	N	4	0	Change List number 9
35	CLIST10	N	4	0	Change List number 10
36	NETWORK	С	4	0	Network (CBCE, CBCF, IND, INDE, INDF, BCMH, or none)
37	CERT_NUMB	С	6	0	Broadcasting Certificate Number in format AANNNN
3.8	BC_MODE	С	1	0	Broadcasting Mode (Stereo, Mono)
	UNATTENDED	C	1	0	Unattended Operation Code (Y, N)
					-
	AUTO_PROG	C	1	0	Automatic Programming Code (Y, N)
	EUVALU	N	5	1	RSS Night Interference Free Value
	POWERDAY	N	7	0	Power in watts Day Time
43	PAR_RMS_D	N	8	2	RMS value mV/m Day Time
44	Q_DAY	N	7	2	Reduced Q factor Day Time
	POWERNIGHT	N	7	0	Power in watts Night Time
	PAR_RMS_N	N	8	2	RMS value mV/m Night Time
	Q_NIGHT	N	7	2	Reduced Q factor Night Time
	POWERCRIT	N	7	0	Power in watts Critical Hours of Operation
			8	2	
49	PAR_RMS_C	N	0	4	RMS value during Critical hours of OPS.

	Q_CRIT				Reduced Q factor during Crit. hours OPS.
51	CHANNEL	N	4	0	4 digit Frequency in kHz. Ex: 1250
יעם ע	ייאי דבר איי	tenna	דר+ D	ern DATa"	Detail records for pattern points.
	FIELD NAME				betail records for pattern points.
1	PATT_KEY	N	6	0	Pattern key number used in all APAT files.
2	ANGLE	N	8	4	Angle in Degrees; AZIMUTH.
3	GAIN	N	8	4	Angle in Degrees; AZIMUTH. RADIATION at ANGLE. (dB above ERPVPK)
7 17 7 1	TDEGG DDE U	\ -a + a -a -a	- DVM	town DEG	winting Beautist was and of nottons
	FIELD NAME			DEC DESC	riptions" Description record of pattern.
1	PATT_KEY HOR_VER PATT_NUMB PATT_TYPE PUNITS NUMPOINTS PATT_DATE	N	6	0	Pattern key number used in all APAT files.
2	HOR VER	С	1	0	Pattern Type; H or V.
3	PATT NUMB	N	1	0	Unused
4	PATT TYPE	С	12	0	Type of Pattern; BRIEF, THEO, PRECISE
5	PUNITS	N	1	0	Type of Pattern; BRIEF, THEO, PRECISE Unused Number of points in APATDAT file.
6	NUMPOINTS	N	3	0	Number of points in APATDAT file.
7	PATT_DATE	D	8	0	Last date of change
					File holding pattern names and counter.
Ŧ	FIELD NAME				
1					Station name "CALL_SIGN"
2	DVLL KEA	N	6	0	Pattern key number used in all APAT files.
_			Ü	· ·	
					ion" Link of pattern keys to Callsign/banners.
	FIELD NAME				
Ţ	CALLS_BANK	C	14	0	Station name "CALL_SIGN" + "BANNER" Pattern key number used in all APAT files.
2	PATT_KEY	IN	6	Ü	Pattern key number used in all APAT files.
AUG	MENT.DBF "AN	/ stat	ion a	ugmentati	ons" "Many" child of AM stations
	FIELD NAME				
1	CALLS_BANR	C	14	0	Station identification
	DNC_CODE	С	1	0	D, N, C: Day, Night, Critical indicator
3	NUMBER	N	2	0	Augmentation segment number.
4	RADIATION	N	8	2	Radiation at central AZIMUTH (mV/m)
5	CENTER_AZ	N	5	1	Central AZIMUTH of Augmentation (degrees)
6	SPAN	N	5	1	Span of Augmentation (degrees)
			_		
	Y.DBF "City			550	Lookup table for station locations
#	FIELD NAME	TAPE	LEN	DEC	
1	PROVINCE	C	 2	0	Provincial or State code
	NAME	C	20	0	City name.
	LATITUDE	N	20 7	0	N.Latitude (city centre or 1st station)(ddmmss)
	LONGITUDE	N	8	0	W.Longitude (city centre or 1st station)(dddmmss)
	CREAT_DT	D	8	0	Date city record created
	MOD_DT	D	8	0	Data city record modified
J		_	-	~	

	MENTS.DBF "C FIELD NAME	TYPE	LEN	DEC	"One" child of all station types.
1	CALLS_BANR	С	14	0	Station identification
	NAME		40	0	Name of license
	ADDR1			0	Address line # 1
		C		0	Address line # 2
				0	Address line # 3
	ADDR3	C C	40	0	Address line # 4
7	HQCOMM	M	10	0	General Headquarters comments
		M		0	General Regional comments
	EDETAILS			0	Details on Limitations; English
10	FDETAILS	ΙVI	10	0	Details on Limitations; French
	TOURS.DBF "S FIELD NAME	TYPE	LEN	DEC	"Many" child of FM and TV stations.
1	CALLS_BANR				Station identification
2	AZIMUTH	N	5	1	
3	VALU_DIST	N	10	4	Height in Meters above Sea Level
				_	or distance in kilometres between the transmitter site and the contour point.
4	NAME	С	4	0	Contour name; AM (EUN, 5000, 500D, 500N) FM (HAAT,3000, 500) TV (HAAT, GRDA, GRDB)
5	LAT END	N	8	4	Calculated end-point N.latitude (decimal fraction)
	_		8	4	Calculated end-point W.laritude (decimal fraction)
0	TOMG_FIND	N	0	4	carculated end-point w.longitude(decimal fraction)
#	FIELD NAME	TYPE	LEN	DEC	hours of operations" "Many" child of AM.
# 1	FIELD NAME CALLS_BANR	TYPE C	LEN 14	DEC 0	hours of operations" "Many" child of AM. Station identification
# 1	FIELD NAME CALLS_BANR	TYPE C	LEN 14	DEC 0	Station identification Extended Period Number
# 1	FIELD NAME	TYPE C	LEN 14	DEC 0	Station identification Extended Period Number Antenna System Used for the Extended
 1 2 3	FIELD NAME CALLS_BANR	TYPE C	LEN 14	DEC 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended
 1 2 3	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM	TYPE C N C	LEN 14 2 1	DEC 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended
# 1 2 3 4	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1	TYPE C N C C	14 2 1 4	DEC 0 0 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation
# 1 2 3 4	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1	TYPE C N C	LEN 14 2 1	DEC 0 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended
# 1 2 3 4 5	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1	TYPE C N C C	14 2 1 4	DEC 0 0 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation
# 1 2 3 4 5	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2	TYPE C N C C N	LEN 14 2 1 4 4	DEC	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation
# 1 2 3 4 5 6	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2	TYPE C N C C N	LEN 14 2 1 4 4	DEC	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended
# 1 2 3 3 4 5 6 7 8	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2	TYPE C N C C N N N	LEN 14 2 1 4 4 4	DEC	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Operation Operation
# 1 2 3 3 4 5 6 7 8 9 FEE	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS	TYPE C N C C N N N N N N N N N N N T T T T T	LEN 14 2 1 4 4 4 7 7	DEC	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts
# 1 23 3 4 5 6 7 8 9	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME	TYPE C N C C N N N N TYPE	LEN 14 2 1 4 4 4 7 7 CCC of LEN	DEC 0 0 0 0 0 0 0 2 feed si	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km
# 1 2 3 4 5 6 7 8 9 FEE # 1	CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME	TYPE C N C C N N N N TYPE C C	LEN 14 2 1 4 4 4 7 7 CCC of LEN 14	DEC 0 0 0 0 0 0 0 2 feed si DEC	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km Station identification
# 1 2 3 4 5 6 7 8 9 FEE # 1 2	FIELD NAME CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME CALLS_BANR FEED_ID	TYPE C N C C N N N N TYPE C C C	LEN 14 2 1 4 4 4 7 7 CCE of LEN 14 1	DEC 0 0 0 0 0 0 0 2 feed si DEC 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km Gnals "Many" child of TV Station identification Feed Identifier; A or B
# 1 2 3 4 5 6 7 8 9 FEEE # 1 2 3	CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME	TYPE C N C C N N N N TYPE C C C C	LEN 14 2 1 4 4 4 7 7 CCE of LEN 14 1 4	DEC 0 0 0 0 0 0 0 2 feed si DEC 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km Station identification Feed Identifier; A or B 0, 2 - 83, or 2500 - 2680
# 1 2 3 4 5 6 7 8 9 FEEE # 1 2 3 4	CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME	TYPE C N C C N N N N TYPE C C C C	LEN 14 2 1 4 4 4 7 7 CCE of LEN 14 1 4 1	DEC 0 0 0 0 0 0 0 2 feed si DEC 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km Station identification Feed Identifier; A or B 0, 2 - 83, or 2500 - 2680 Type of FEED LINK; O, U, S, C
# 1 2 3 4 5 6 7 8 9 FEE # 1 2 3 4 5 5	CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME CALLS_BANR FEED_ID FEED_CHAN LINK_TYPE FEED_CALL	TYPE C N C C N N N N TYPE C C C C	LEN 14 2 1 4 4 4 7 7 CCE of LEN 14 1 4 1 12	DEC	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km Grals "Many" child of TV Station identification Feed Identifier; A or B 0, 2 - 83, or 2500 - 2680 Type of FEED LINK; O, U, S, C Name of the SOURCE of the FEED
# 1 2 3 4 5 6 6	CALLS_BANR NUMBER ANT_SYSTEM START1 END1 START2 END2 POWER RMS DS.DBF "TV - FIELD NAME	TYPE C N C C N N N N TYPE C C C C	LEN 14 2 1 4 4 4 7 7 CCE of LEN 14 1 4 1	DEC 0 0 0 0 0 0 0 2 feed si DEC 0 0 0	Station identification Extended Period Number Antenna System Used for the Extended Operation (D, N) Month and Day to Start the Extended Operation Month and Day to End the Extended Operation Hour and Minute to Start Extended Operation Hour and Minute to End Extended Operation Station's Power in Watts RMS value of Radiation in mV/m at 1 Km Station identification Feed Identifier; A or B 0, 2 - 83, or 2500 - 2680 Type of FEED LINK; O, U, S, C

FMS	ratio.dbf "f	'M sta	tions	1	
#	FIELD NAME		LEN	DEC	
1	PROVINCE		2	0	Province / State code
2	CITY	C	20	0	City name.
3	CALL_SIGN	С	12	0	Call sign of station
	FREQUENCY	N	7	2	Frequency in MHz 88.1 to 107.9
5	CLASS	C	3	0	Class of Station; A, A1, B, B1, C, C1, C2,
					D, LP, VLP; For Canadian Stations, A, A1, B, C, C1, LP, VLP; For Non-Canadian Stations,
_			_	•	A, B, B1, C, C1, C2, D
6	LATITUDE	N	7	0	<pre>N.Latitude of the FM Station's Transmitter(ddmmss)</pre>
7	LONGITUDE	N	8	0	W.Longitude of the FM Station's Transmitter(dddmmss)
8	BANNER	С	2	0	AL, AP, AU, CP(US Only), DE, IC, IL, OP, PC, RE, TD, TO, UA, UC, UN: Allotment, Approved, Authorized, Construction Permit, Denied, Incomplete, Illegal, Operational, Proposed Channel, Referred to CRTC, Tentative Deletion, Temp. Operation, Approved by CRTC, Under Consideration, Unacceptable
9	SS_CODE	С	5	0	Short Spacing Code; "*O#aa"
	NETWORK	C	4	0	Network affiliation: CANC, CBC, CBCE, CBCF, IND, INDE, INDF, Space
11	ANT_MODE	С	1	0	Antenna Mode; O, D; Omnidirectional or Directional
12	BC_MODE	С	1	0	Broadcasting Mode: S, M, Space; Stereo, Mono
13	BRDR_LAT	N	7	0	N.Latitude used when BORDER last calculated
14	BRDR_LONG	N	8	0	W.Longitude used when BORDER last calculated
15	BORDER	N	7	1	Closest distance to Canada US Border(km)
	CAN_LAND	N	7	1	Closest distance to Canada Land Edge
	USA_LAND	N	7	1	Closest distance to USA Land Edge
	FRE_LAND	N	7	1	Closest distance to French Land Edge near Newfoundland
19	ST_CREAT	D	8	1	Date station entered in the database
20	ST_MOD	D	8	1	Date station was last modified
	OK_DUMP	D	8	1	Last date of record Modification for a Consultants dump
22	DOC_FILE	N	5	0	I.C. file number; any 5 Numeric digits
	DEC_NUMBER	N	6	0	CRTC Decision Number "YYNNNN"
	UNATTENDED	С	1	0	Unattended Operation Code (Y, N)
25	CERT_NUMB	С	6	0	Broadcasting Certificate Number "FANNNN"
	SCMO	C	1	0	Subsidiary Carrier Multiple Operation Code Y or N
27	AUTO_PROG	С	1	0	Automatic Programming Code; Y, N
	BEAM_TILT	N	5	1	Beam Tilt Angle in Degrees; -10.0 to 10.0
	EHAATT	N	7	1	Effective Height of Antenna Above Terrain -1,200.0 to 2,000.0 meters
30	ERPVAV	N	7	0	ERP Vertical Average in Watts
	ERPVPK	N	7	0	ERP Vertical Peak Power in Watts 0 to over 5,000,000
32	ERPHAV	N	7	0	ERP Horizontal Average in Watts 0 to over 360,000
33	ERPHPK	N	7	0	ERP Horizontal Peak Power in Watts 0 to over 360,000
34	GROUND_LEV	N	6	1	Ground Level at Tower Base above Sea Level in Meters: 0.0 to 9,999.9
35	OVERALL_H	N	5	1	Overall Height Above ground in Meters 0.0 to 999.9 meters
36	RAD_CENTER	N	6	1	Radiating Center Above Mean Sea Level

37 CHANNEL N 4 0 Channel 201 to 300

```
PARAMS.DBF "AM stations parameters - (towers information)"
  # FIELD NAME TYPE LEN DEC "Many" child of AM
PROVINCE.DBF "Description of provinces" Lookup table for all stations
   # FIELD NAME TYPE LEN DEC
_____
1 PROVINCE C 2 0 Province Code
2 COUNTRY C 2 0 Country Code
3 LOW_LAT N 7 0 Province bounding box, lower latitude
4 HIGH_LAT N 7 0 Province bounding box, high latitude
5 LOW_LONG N 8 0 Province bounding box, lower longitude
6 HIGH_LONG N 8 0 Province bounding box, high longitude
7 CREAT_DT D 8 0 Creation date of Province Record
8 MOD_DT D 8 0 Modification Date
9 ENGDESC C 25 0 Name of province/state; English
10 FRNDESC C 25 0 Name of province/state; French
REGION.DBF "Data from regional offices" Data that regional users supply
  # FIELD NAME TYPE LEN DEC
  Space; Flashing, Beacon, Lighting,
Strobe, Painting.

6 SPR_DAT D 8 0 Supplementary Proof:

7 RSP_DAT D 8 0 Request for Proof:

8 STDETT D 8 0 Consultant Test Start:

9 AIR_CLEAR D 8 0 "On Air" clearance date

10 INSPEC_DAT D 8 0 Last inspection date

11 RCF_DAT D 8 0 Consultant Retained:

12 STAT_TYPE C 2 0 Type of station (AM, FM, TV)

13 DOCFEX C 4 0 Inspection Report Code:

14 PROVINCE C 2 0 Province code

15 COUNTRY C 2 0 Country code
                                                                     Strobe, Painting.
```

	FIELD NAME	TYPE	tions	" DEC	
1	PROVINCE	C	2	0	Province / State
2	CITY	С	20	0	City name
3	CALL_SIGN	C	12	0	Station call sign
4	FREQUENCY	N	7	2	Frequency in MHz. (too many to list)
5	CLASS	С	3	0	Class of Station; A, B, C, D, F, N, R, S, VLP
6	LATITUDE	N	7	0	Latitude coordinate in degrees of the Station's Transmitter
7	LONGITUDE	N	8	0	Longitude coordinate in degrees of the Station's Transmitter
8	BANNER	С	2	0	AL, AP, AU, CP, DE, IC, IL, OP, PC, RE, TD TO, UA, UC, UN; Allotment, Approved, Authorized, Construction Permit, Denied, Incomplete, Illegal, Operational, Proposed Channel, Referred to CRTC, Tentative Deletion, Temp. Operation, Approved by CRT Under Consideration, Unacceptable
9	LIMITE	С	5	0	Limitation Identification code "LAAAA"
	NETWORK	C	4	0	Network; AECC, ASN, CANC, CBCE, CBCF, CTV, GTN, HC, INDE, INDF, KNOW, MITV, MM, N. PATV, R-QF, TSN, TVA, TVO, and Space
11	ANT_MODE	С	1	0	Antenna Mode: O, D, Space; Omnidirectional or Directional
12	BC_MODE	С	1	0	Broadcasting Mode; S, P, B, Space; Stereo, Second Audio Channels or Both
13	OFFSET	С	1	0	Refers to TV Off-set Code. Space, +, -, Z.
14	OFF_PREC	C	1	0	Refers to Off-set Precision. Valid Y, Spac
15	BRDR_LAT	N	7	0	Latitude used when BORDER last calculated
16	BRDR_LONG	N	8	0	Longitude used when BORDER last calculated
17	BORDER	N	7	1	Closest distance to Canada US Border(km)
18	CAN_LAND	N	7	1	Closest distance to Canada Land Edge
19	USA_LAND	N	7	1	Closest distance to USA Land Edge
20	FRE_LAND	N	7	1	Closest distance to French Land Edge near Newfoundland
21	ST_CREAT	D	8	1	Date station entered in database
22	ST_MOD	D	8	1	Date station last modified
21	OK_DUMP	D	8	1	Last date of record Modification for a Consultants dump
24	DOC_FILE	N	5	0	I.C. file number
25	DEC_NUMBER	N	6	0	CRTC Decision Number: "YYNNNN"
26	UNATTENDED	C	1	0	Unattended Operation Code (Y, N)
27	CERT_NUMB	C	6	0	Broadcasting Certificate Number "TANNNN"
28	CLOSE_CAP	С	1	0	Closed Captioning; Y or N
29	ALLOC_ZONE	N	1	0	Allocation Planning Zone 0, 1 or 2
	BEAM_TILT	N	5	1	Beam Tilt Angle in Degrees; -10.0 to 10.0
	EHAATT	N	7	1	Effective Height of Antenna Above Terrain -1,200.0 to 2,000.0 meters
32	ERPVAV	N	7	0	ERP Visual Average in Watts
33	ERPVPK	N	7	0	ERP Visual Peak Power in Watts 0 to over 5,000,000
34	ERPAAV	N	7	0	ERP Aural Average in Watts 0 to 1,000,000
35	ERPAPK	N	7	0	ERP Aural Peak Power in Watts 0 to 1,000,000
36	ERPVTA	N	7	0	ERP Peak Visual Power at Tilt Angle in Wat 0 to more than 5,000,000
37	ERPATA	N	7	0	ERP Average Power at Tilt Angle in watts 0 to 5,000,000
38	GROUND_LEV	N	6	1	Ground Level at Tower Base above Sea Level

in Meters: 0.0 to 9,999.9 39 OVERALL_H N 5 1 Overall Height Above ground in Meters 0.0 to 999.9 0.0 to 999.9 40 RAD_CENTER N 6 1 Radiating Center Above Ground Level 0.0 to 5,000.0 metres

NOTES:

- Latitudes are currently expressed in degrees, positive for Northern Hemisphere and negative for Southern Hemisphere. Unless otherwise indicated latitudes are expressed in +-DDMMSS.
- Longitudes are currently expressed in positive degrees only and have the meaning of West. Some longitudes exceed 180 degrees. Unless otherwise noted longitudes are expressed in +-DDDMMSS.
- Unless otherwise noted, antenna heights are in meters(m) and distance is expressed in kilometres(km)

The following index key expressions are utilized for data processing within the Broadcast Database system at Industry Canada. They are provided as a quide when using the included Index Creation Utility.

```
Index file Key expression
AMSTATI1.NTX CALL_SIGN+BANNER
AMSTATI2.NTX CITY
AMSTATI3.NTX SUBSTR(STR(LONGITUDE,7,0),1,3) + SUBSTR(STR(LATITUDE,6,0),1,2)
AMSTATI4.NTX CHANNEL
APATDAT1.NTX PATT_KEY
APATDAT2.NTX STR(PATT_KEY, 6)+STR(ANGLE, 8, 4)
APATDES1.NTX PATT KEY
APATKEY1.NTX S NAME
APATKEY2.NTX PATT KEY
APATSTA1.NTX CALLS BANR
APATSTA2.NTX CALLS_BANR+STR(PATT_KEY)
AUGMENT1.NTX CALLS_BANR
AUGMENT2.NTX CALLS_BANR+DNC_CODE
AUGMENT3.NTX CALLS_BANR+DNC_CODE+STR(NUMBER)
BDBSDIC1.NTX ALIAS
BDBSREP1.NTX RI_REPORT
BDBS_ER1.NTX ERRCODE
BDBS_SY1.NTX DATAPATH
CITY1.NTX PROVINCE+NAMEData dictionary of ALS data extract for Broadcast use
Structure for database: P:\ALS\DIV1\ALSDIV1.DBF
Number of records : 219212
                       : 93/07/08
Last update
_____
Field Field Name Type Length Dec Description

1 LICENSEE Character 25 Licensee name

2 COMPNY_COD Numeric 10 Company code

3 DISTRICT Numeric 2 IC District office No

4 DIV_CODE Numeric 1 Divulgation code
                                                   (1)freely distributable
                                                    (2)do not divulgate
*** F.G. WARNING *** Do NOT rely exclusively on this field
*** You MUST NOT disclose also
    Company codes starting with 17.....
                                  0217......
                                  0817.....
                                  0917.....
                                  1017......
                                   1217.....
                                  1517......
                                  5217.......
                                  5617.....
*******************
    5 CALL_SIGN Character 10 Station Callsign
6 LOCATION Character 25 Region, city, province
unformatted
                                                  unformatted
7 LATITUDE Numeric 6 North latitude of tx 8 LONGITUDE Numeric 7 West longitude of tx **** F.G. of Station could be a RX only ****
   9 SITE_ELEV Numeric 5 Ground level in feet(meters)?
**** F.G. site elevation -MTRS AMSL *******
```

```
10 FREQ_TX Numeric 13 6 Tx frequency in MHz 11 FREQ_RX Numeric 13 6 Rx frequency in MHz
                                    1
   12 STATUS
                   Numeric
                                                   Status of Station
**** F.G. Frequency status
     Status - 0 - Pending
               1 - Individually authorized
               2 - Authorized to be billed
               3 - Authorized for future
               4 - Invoiced
               5 - Authorized paid/licence held
               6 - Active
               7 - Under reconsideration
               8 - Transferred
               9 - Cancelled *****
   13 ERP_DBW Numeric 5 1 tx Effective Radiated Power 14 ELEV_ANGLE Numeric 7 3 Elevation angle from horizon of main beam in degrees
                                                   of main beam in degrees
*** F.G. TX antenna elevation angle - beam tilt from horizontal ground ****
   15 ANT_HEIGHT Numeric 4 height of antenna Radiation
                                                    centre above mean sea level
                                                    in meters?
*** F.G. TX antenna height AGL-MTRS of radiating elements *****
   16 AZIMUTH Numeric 5 1 Azimuth of main beam (degrees
                                                    from True North).
*** F.G. Azimuth from true north of antenna's direction of maximum radiation ***
   17 ANT_GAIN Numeric 4 1 antenna gain in dbW
18 AZM_MLOBE Numeric 5 1 Azimuth of main lobe (degrees
                                                   from True North).
*** F.G. TX antenna beamwidth - Half power beamwidth distance of 3dB from the antenna
* *
  19 ANTMOD_NO Character 8
                                             Antenna mode
*** F.G. Antenna model number ****
_____
** Total **
                                  157
CITY2.NTX PROVINCE
COMMENT1.NTX CALLS BANR
CONTOUR1.NTX CALLS_BANR
CONTOUR2.NTX CALLS BANR+NAME
CONTOUR3.NTX CALLS_BANR+NAME+STR(AZIMUTH,5,1)
DATES1.NTX CALLS_BANR
EXTEND1.NTX CALLS_BANR
EXTENDI.NIX CALLS_BANK

EXTEND2.NTX CALLS_BANR+ANT_SYSTEM+STR(NUMBER,2)

FEEDS1.NTX CALLS_BANR

FEEDS2.NTX CALLS_BANR+FEED_ID

FMSTATI1.NTX CALL_SIGN+BANNER

FMSTATI2.NTX CITY

FMSTATI2.NTX SUPSTR(STR(LONGITUDE 7.0) 1.3) + SIM
FMSTATI3.NTX SUBSTR(STR(LONGITUDE,7,0),1,3) + SUBSTR(STR(LATITUDE,6,0),1,2)
KEYWORDS.NTX longwd
LOGIN1.NTX LOGID
LOOKUP1.NTX FIELDNAME
LOOKUP2.NTX FIELDNAME+CODE
PARAMS1.NTX CALLS_BANR
PARAMS2.NTX CALLS BANR+DNC CODE+STR(TOWER NUMB)
PROVINC1.NTX PROVINCE
REGION1.NTX CALLS_BANR
SCREEN1.NTX TABLE
TVSTATI1.NTX CALL SIGN+BANNER
TVSTATI2.NTX CITY
```

D.O ALS DATA EXTRACT

Data dictionary of ALS data extract for Broadcast use

Structure for database: P:\ALS\DIV1\ALSDIV1.DBF

Number of records : 219212 Last update : 93/07/08

-----Field Field Name Type Length Dec Description

1 LICENSEE Character 25 Licensee name
2 COMPNY_COD Numeric 10 Company code
3 DISTRICT Numeric 2 IC District office No
4 DIV_CODE Numeric 1 Divulgation code
(1) freely distributal (1)freely distributable
(2)do not divulgate 5 CALL_SIGN Character 10 Station Callsign
6 LOCATION Character 25 Region, city, province unformatted 7 LATITUDE Numeric 6 North latitude of tx, rx
8 LONGITUDE Numeric 7 West longitude of tx, rx
9 SITE_ELEV Numeric 5 Ground level in meters above mean sea level mean sea level mean sea level

10 FREQ_TX Numeric 13 6 Tx frequency in MHz

11 FREQ_RX Numeric 13 6 Rx frequency in MHz

12 STATUS Numeric 1 Status of Station 0 - Pending 1 - Individually authorized 2 - Authorized to be billed 3 - Authorized for future 4 - Invoiced 5 - Authorized paid/licence held 6 - Active 7 - Under reconsideration 8 - Transferred 9 - Cancelled ***** 5 1 tx Effective Radiated Power 7 3 Elevation angle from horizon 13 ERP_DBW Numeric 14 ELEV_ANGLE Numeric 15 ANT_HEIGHT Numeric 4 Height of antenna Radiation centre above ground in meters

16 AZIMUTH Numeric 5 1 Azimuth of main beam (degrees from True North).

17 ANT_GAIN Numeric 4 1 Antenna gain in dbW

18 AZM_MLOBE Numeric 5 1 Degrees of half power beamwidth (3dB) in degrees of the antenna

19 ANTMOD_NO Character 8 Antenna model number in degrees _____

^{**} Total ** 157