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Broadcasting Database Export User Manual

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1. Introduction

This manual describes the file organization and contents of the Broadcasting Database extract. The extract is provided in dBASEIII format.

2. Distribution

The Broadcasting Database extract is available online at <http://sms-sgs.ic.gc.ca> under Broadcasting Service.

3. Data and File Organization

The main index used to identify data is the station Call Sign. To uniquely identify stations, the Banner code is added to the end of the Call Sign. This Call Sign-Banner combination is used as the main index for Broadcast data.

The following files are included in the Broadcasting Database extract.

| FILE | DESCRIPTION |
|------------------|---|
| allcode.txt | List of Limitations* |
| amstatio.dbf | Main station information for AM stations |
| apatdat.dbf | Detailed records for antenna pattern points |
| apatdesc.dbf | Description records of antenna patterns |
| apatkey.dbf | File holding pattern names and counter* |
| apatstat.dbf | Link of pattern keys to call sign/banners |
| augment.dbf | AM station augmentations |
| borders.mif | Canadian border data |
| city.dbf | Lookup table for station locations* |
| comments.dbf | Station comments and limitations |
| comments.dbt | Memo fields of COMMENTS.DBF |
| contours.dbf | Station contours of FM and TV stations |
| ctrydesc.dbf | Country codes and descriptions |
| dates.dbf | Application or certificate dates |
| distbord.dbf | Border points* |
| extend.dbf | AM stations extended hours of operations |
| feeds.dbf | Source of TV feed signals |
| FMLimits.txt | List of FM Limitations |
| fmsep.dbf | FM Separation Distances |
| fmsepdm.dbf | FM Domestic Separation Distances |
| fmsepint.dbf | FM International Separation Distances |
| fmstatio.dbf | Main station information for FM stations |
| limcode.dbf | FM limitation codes* |
| limcodeExtra.dbf | Additional FM limitation codes* |
| lookup.dbf | Decoding of various lookup values* |
| modcall.dbf | Call sign or banner code changes * |
| params.dbf | AM stations parameters - towers information |
| province.dbf | Lookup table for province information |

| FILE | DESCRIPTION |
|--------------|--|
| region.dbf | Regional data |
| stations.dbf | CRTC application numbers |
| Tsid.dbf | TV TSIDs |
| TVLimits.txt | List of TV limitations |
| tvstatio.dbf | Main station information for TV, MDS, and T-SDARS stations |

* Files not being maintained

4. Descriptions of file contents /

TYPE: C = Character, N = Number, D = Date

LEN: Length

DC: For number fields, number of digits after decimal

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, antenna heights are in meters (m) and distance is expressed in kilometres (km).

4.1 ALLCODE.TXT List of Limitations

* File no longer being updated – refers to FMLimits.txt and TVLimits.txt files

4.2 AMSTATIO.DBF Main station information for AM stations

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|--|
| 1 | PROVINCE | C | 2 | 0 | Province / State code of service area |
| 2 | CITY | C | 20 | 0 | City name of service area |
| 3 | CALL_SIGN | C | 12 | 0 | Call sign of station |
| 4 | FREQUENCY | N | 7 | 2 | Frequency in kHz. Valid 530 to 1700 |
| 5 | CLASS | C | 3 | 0 | Class (A, B, C, CC, LP) |
| 6 | LATITUDE | N | 7 | 0 | N.Latitude of the AM Station's Night time Transmitter (ddmmss) |
| 7 | LONGITUDE | N | 8 | 0 | W.Longitude of the AM Station's Night time Transmitter(dddmmss) |
| 8 | BANNER | C | 2 | 0 | Banner flag (A, C, O, P, AX) |
| 9 | STATUS1 | C | 2 | 0 | Application Status day-time |
| 10 | STATUS2 | C | 2 | 0 | 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 | Not Used |
| 14 | BRDR_LONG | N | 8 | 0 | Not Used |

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| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|---|
| 15 | BORDER | N | 7 | 1 | Closest distance to Canada US Border (km)* |
| 16 | CAN_LAND | N | 7 | 1 | Closest distance to Canada Land Edge* |
| 17 | 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 | Not Used |
| 20 | ST_MOD | D | 8 | 1 | Not Used |
| 21 | OK_DUMP | D | 8 | 1 | Not Used |
| 22 | DOC_FILE | N | 5 | 0 | ISED's file number |
| 23 | 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 |
| 29 | CLIST4 | N | 4 | 0 | Change List number 4 |
| 30 | CLIST5 | N | 4 | 0 | Change List number 5 |
| 31 | CLIST6 | N | 4 | 0 | Change List number 6 |
| 32 | CLIST7 | N | 4 | 0 | Change List number 7 |
| 33 | 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 | C | 4 | 0 | Not used |
| 37 | CERT_NUMB | C | 6 | 0 | Not used |
| 38 | BC_MODE | C | 1 | 0 | Broadcasting Mode (Stereo, Mono) |
| 39 | UNATTENDED | C | 1 | 0 | Not Used |
| 40 | AUTO_PROG | C | 1 | 0 | Not Used |
| 41 | EUVALU | N | 5 | 1 | RSS Night Interference Free Value |
| 42 | 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 |
| 45 | POWERNIGHT | N | 7 | 0 | Power in watts Night Time |
| 46 | PAR_RMS_N | N | 8 | 2 | RMS value mV/m Night Time |
| 47 | Q_NIGHT | N | 7 | 2 | Reduced Q factor Night Time |
| 48 | POWERCRIT | N | 7 | 0 | Power in watts Critical Hours of Operation |
| 49 | PAR_RMS_C | N | 8 | 2 | RMS value during Critical hours |
| 50 | Q_CRIT | N | 7 | 2 | Reduced Q factor during Critical hours |
| 51 | CHANNEL | N | 4 | 0 | 4 digit Frequency in kHz. Ex: 1250 |

* Data may not be updated or maintained

4.3 APATDAT.DBF Detailed records for antenna pattern points

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|--|
| 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 | RADIATION at ANGLE. (dB above ERPVPK) |

4.4 APATDESC.DBF Description records of antenna patterns

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|--|
| 1 | PATT_KEY | N | 6 | 0 | Pattern key number used in all APAT files |
| 2 | HOR_VER | C | 1 | 0 | Pattern Type; H or V |
| 3 | PATT_NUMB | N | 1 | 0 | Not used |
| 4 | PATT_TYPE | C | 12 | 0 | Type of Pattern; BRIEF, THEORETICAL, PRECISE, UNKNOWN* |
| 5 | PUNITS | N | 1 | 0 | Not used |
| 6 | NUMPOINTS | N | 3 | 0 | Number of points in APATDAT file. |
| 7 | PATT_DATE | D | 8 | 0 | Not used |

* Data may not be updated or maintained

4.5 APATKEY.DBF File holding pattern names and counter

*File no longer maintained

4.6 APATSTAT.DBF Link of pattern keys to call sign/banners

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|--|
| 1 | CALLS_BANR | C | 14 | 0 | Station name "CALL_SIGN" + "BANNER" |
| 2 | PATT_KEY | N | 6 | 0 | Pattern key number used in all APAT files. |

4.7 AUGMENT.DBF AM station augmentations

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|---|
| 1 | CALLS_BANR | C | 14 | 0 | Station name "CALL_SIGN" + "BANNER" |
| 2 | DNC_CODE | C | 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) |

4.8 BORDERS.MIF Canadian border data

Vectors in MapInfo compatible format representing the Canadian border

4.9 CITY.DBF Lookup table for station locations

* File no longer maintained

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|---|
| 1 | PROVINCE | C | 2 | 0 | Provincial or State code |
| 2 | NAME | C | 20 | 0 | City name |
| 3 | LATITUDE | N | 7 | 0 | N.Latitude (city centre or 1st station)(ddmmss) |
| 4 | LONGITUDE | N | 8 | 0 | W.Longitude (city centre or 1st station)(dddmmss) |

| | | | | | |
|---|----------|---|---|---|---------------------------|
| 5 | CREAT_DT | D | 8 | 0 | Not used |
| 6 | MOD_DT | D | 8 | 0 | Date city record modified |

4.10 COMMENTS.DBF Station comments and limitations

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|----|------------|----------|-----|----|---------------------------------|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | NAME | C | 40 | 0 | Name of licensee |
| 3 | ADDR1 | C | 40 | 0 | Address - Street |
| 4 | ADDR2 | C | 40 | 0 | Address – Street #2 |
| 5 | ADDR3 | C | 40 | 0 | Address - City |
| 6 | ADDR4 | C | 40 | 0 | Address - Province |
| 7 | HQCOMM | M | 10 | 0 | Headquarters comments |
| 8 | RGCOMM | M | 10 | 0 | Regional comments |
| 9 | EDETAILS | M | 10 | 0 | Details on Limitations; English |
| 10 | FDETAILS | M | 10 | 0 | Details on Limitations; French |

4.11 COMMENTS.DBT Memo fields of COMMENTS.DBF

Contains memo fields for Comments and Limitations from COMMENTS.DBF

4.12 CONTOURS.DBF Station contours of FM and TV stations.

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|---|------------|----------|-----|----|---|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | AZIMUTH | N | 5 | 1 | Azimuth; degrees from true North |
| 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 | C | 4 | 0 | Contour name: FM (HAAT,3000, 500) TV (HAAT, GRDA, GRDB, NLBC, DUC) |
| 5 | LAT_END | N | 8 | 4 | Calculated end-point N.latitude (decimal degrees) |
| 6 | LONG_END | N | 8 | 4 | Calculated end-point W.longitude (decimal degrees) |

In the contours data table, negative values may appear in some contours. They indicate that those values are realistic contours. These negative contour points were calculated with a method like Bullington or other propagation methods than the typical F(50,50) or F(50,90) curves.

4.13 CTRYDESC.DBF Country codes and descriptions

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|---|------------|----------|-----|----|--|
| 1 | COUNTRY_CO | C | 2 | 0 | Country Code |
| 2 | LANGUAGE_I | C | 1 | 0 | Language indicator: E (English), F (French) |
| 3 | DESCRIPTIO | C | 40 | 0 | Country Name in language of language indicator |

4.14 DATES.DBF Application or certificate dates

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|--|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | BC_EFFCT | D | 8 | 0 | Broadcasting Certificate effective date |
| 3 | BC_EXPIR | D | 8 | 0 | Broadcasting Certificate renewal date or LOA or OATA expiry date |
| 4 | BC_SENT | D | 8 | 0 | Not used |
| 5 | BC_SENTN | D | 8 | 0 | Not used |
| 6 | BC_SENTR | D | 8 | 0 | Not used |
| 7 | BC_SENTA | D | 8 | 0 | Not used |
| 8 | CRTC_EXPIR | D | 8 | 0 | Not used |
| 9 | CDN_PROP | D | 8 | 0 | Date international coordination request sent |
| 10 | FCC_ACCPT | D | 8 | 0 | Date international coordination reply received |
| 11 | APPLICATN | D | 8 | 0 | Date of application / application received |
| 12 | AUTHORIZE | D | 8 | 0 | Date LOA issued |
| 13 | ON_AIR | D | 8 | 0 | On air date |
| 14 | COMMENTS | D | 8 | 0 | Date of TA Comments* |
| 15 | APP_REC | D | 8 | 0 | Not used |
| 16 | APP_RECEN | D | 8 | 0 | Date application received * |
| 17 | APP_RECR | D | 8 | 0 | Not used |
| 18 | APP_RECA | D | 8 | 0 | Not used |
| 19 | CRTC_1ST | D | 8 | 0 | CRTC letter date |
| 20 | CRTC_1STN | D | 8 | 0 | CRTC hearing date |
| 21 | CRTC_1STR | D | 8 | 0 | Not used |
| 22 | CRTC_1STA | D | 8 | 0 | Not used |
| 23 | STRT_CERT | D | 8 | 0 | Not used |
| 24 | STRT_CERTN | D | 8 | 0 | Not used |
| 25 | STRT_CERTR | D | 8 | 0 | Not used |
| 26 | STRT_CERTA | D | 8 | 0 | Not used |
| 27 | BC_ISSUE | D | 8 | 0 | Not used |
| 28 | PPROOF_REC | D | 8 | 0 | Not used |
| 29 | PPROOF_LET | D | 8 | 0 | Not used |
| 30 | FPROOF_REC | D | 8 | 0 | Not used |
| 31 | FPROOF_LET | D | 8 | 0 | Not used |
| 32 | SPROOF_REC | D | 8 | 0 | Not used |
| 33 | SPROOF_LET | D | 8 | 0 | Not used |
| 34 | DBRIEF | D | 8 | 0 | Not used |
| 35 | DBRIEF1 | D | 8 | 0 | Not used |
| 36 | DBRIEF2 | D | 8 | 0 | Not used |
| 37 | DBRIEF3 | D | 8 | 0 | Not used |
| 38 | DBRIEF4 | D | 8 | 0 | Not used |
| 39 | NBRIEF | D | 8 | 0 | Not used |
| 40 | NBRIEF1 | D | 8 | 0 | Not used |

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|----|------------|----------|-----|----|-------------|
| 41 | NBRIEF2 | D | 8 | 0 | Not used |
| 42 | NBRIEF3 | D | 8 | 0 | Not used |
| 43 | NBRIEF4 | D | 8 | 0 | Not used |

* Data may not be updated or maintained

4.15 DISTBORD.DBF Border points

*File no longer maintained

4.16 EXTEND.DBF AM stations extended hours of operations

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|---|------------|----------|-----|----|---|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | NUMBER | N | 2 | 0 | Extended Period Number |
| 3 | ANT_SYSTEM | C | 1 | 0 | Antenna System Used for the Extended Operation (D, N) |
| 4 | START1 | C | 4 | 0 | Month and Day to Start the Extended Operation |
| 5 | END1 | C | 4 | 0 | Month and Day to End the Extended Operation |
| 6 | START2 | N | 4 | 0 | Hour and Minute to Start the Extended Operation |
| 7 | END2 | N | 4 | 0 | Hour and Minute to End the Extended Operation |
| 8 | POWER | N | 7 | 0 | Station's Power in Watts |
| 9 | RMS | N | 7 | 2 | RMS value of Radiation in mV/m at 1 Km |

4.17 FEEDS.DBF Source of TV feed signals

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|---|------------|----------|-----|----|---|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | FEED_ID | C | 1 | 0 | Feed Identifier; A or B |
| 3 | FEED_CHAN | N | 4 | 0 | FEED SOURCE channel number; 0, 2- 69, or 2500- 2680 |
| 4 | LINK_TYPE | C | 1 | 0 | Type of FEED LINK; O, U, S, C |
| 5 | FEED_CALL | C | 12 | 0 | Name of the SOURCE of the FEED |
| 6 | FEED_LAT | N | 7 | 0 | N.Latitude of the FEED SOURCE(ddmmss) |
| 7 | FEED_LONG | N | 8 | 0 | W.Longitude of the FEED SOURCE(dddmmss) |

4.18 FMLimits.txt List of FM Limitations

*Tab delimited Text file not dBF

| # | DESCRIPTION |
|---|-----------------------|
| 1 | Call sign |
| 2 | Banner code |
| 3 | Limitations (English) |
| 4 | Limitations (French) |

4.19 FMSEP.DBF FM Separation Distances

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|--|
| 1 | TYPE | C | 3 | 0 | Type of Separation |
| 2 | CLASS | C | 3 | 0 | 2 nd Station Class |
| 3 | A1 | N | 4 | 1 | Separation distance between A1 and Class in CLASS field |
| 4 | A | N | 4 | 1 | Separation distance between A and Class in CLASS field |
| 5 | B1 | N | 4 | 1 | Separation distance between B1 and Class in CLASS field |
| 6 | B | N | 4 | 1 | Separation distance between B and Class in CLASS field |
| 7 | C1 | N | 4 | 1 | Separation distance between C1 and Class in CLASS field |
| 8 | CD | N | 4 | 1 | Separation distance between CD and Class in CLASS field |
| 9 | CI | N | 4 | 1 | Separation distance between CI and Class in CLASS field |
| 10 | D | N | 4 | 1 | Separation distance between D and Class in CLASS field |
| 11 | LP | N | 4 | 1 | Separation distance between LP and Class in CLASS field |
| 12 | VLP | N | 4 | 1 | Separation distance between VLP and Class in CLASS field |

4.20 FMSEPDOM.DBF FM Domestic Separation Distances

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|---|
| 1 | TYPE | C | 3 | 0 | Type of Separation |
| 2 | CLASS | C | 3 | 0 | 2 nd Station Class |
| 3 | A1 | N | 4 | 1 | Separation distance between A1 and Class in CLASS field |
| 4 | A | N | 4 | 1 | Separation distance between A and Class in CLASS field |
| 5 | B1 | N | 4 | 1 | Separation distance between B1 and Class in CLASS field |
| 6 | B | N | 4 | 1 | Separation distance between B and Class in CLASS field |
| 7 | C1 | N | 4 | 1 | Separation distance between C1 and Class in CLASS field |
| 8 | CD | N | 4 | 1 | Separation distance between CD and Class in CLASS field |
| 9 | CI | N | 4 | 1 | Separation distance between CI and Class in CLASS field |
| 10 | D | N | 4 | 1 | Separation distance between D and Class in |

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|--|
| | | | | | CLASS field |
| 11 | LP | N | 4 | 1 | Separation distance between LP and Class in CLASS field |
| 12 | VLP | N | 4 | 1 | Separation distance between VLP and Class in CLASS field |

4.21 FMSEPINT.DBF FM International Separation Distances

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|--|
| 1 | TYPE | C | 3 | 0 | Type of Separation |
| 2 | CLASS | C | 3 | 0 | 2 nd Station Class |
| 3 | A1 | N | 4 | 1 | Separation distance between A1 and Class in CLASS field |
| 4 | A | N | 4 | 1 | Separation distance between A and Class in CLASS field |
| 5 | B1 | N | 4 | 1 | Separation distance between B1 and Class in CLASS field |
| 6 | B | N | 4 | 1 | Separation distance between B and Class in CLASS field |
| 7 | C1 | N | 4 | 1 | Separation distance between C1 and Class in CLASS field |
| 8 | CD | N | 4 | 1 | Separation distance between CD and Class in CLASS field |
| 9 | CI | N | 4 | 1 | Separation distance between CI and Class in CLASS field |
| 10 | D | N | 4 | 1 | Separation distance between D and Class in CLASS field |
| 11 | LP | N | 4 | 1 | Separation distance between LP and Class in CLASS field |
| 12 | VLP | N | 4 | 1 | Separation distance between VLP and Class in CLASS field |

4.22 FMSTATIO.DBF Main station information for FM stations

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|---|
| 1 | PROVINCE | C | 2 | 0 | Province / State code for service area |
| 2 | CITY | C | 20 | 0 | City name of service area |
| 3 | CALL_SIGN | C | 12 | 0 | Call sign of station |
| 4 | 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 | N.Latitude of the FM Station's Transmitter. (ddmmss) |

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| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|---|
| 7 | LONGITUDE | N | 8 | 0 | W.Longitude of the FM Station's Transmitter (dddmmss) |
| 8 | BANNER | C | 2 | 0 | AL, AP, AU, AX, CP, IC, OP, PC, RE, TD, TO, TP, UC, UN, UX: Allotment, Approved by CRTC, Approved by ISED, Auxiliary transmitter, Construction Permit, Incomplete, Operational, Proposed Channel, Referred to CRTC, Tentative Deletion, Temporary Operation, Temporary proposal, Under Consideration, Unacceptable, Under consideration – auxiliary transmitter |
| 9 | SS_CODE | C | 5 | 0 | Short Spacing Code; "*O#aa" |
| 10 | NETWORK | C | 4 | 0 | Not used |
| 11 | ANT_MODE | C | 1 | 0 | Antenna Mode; O, D; Omnidirectional or Directional |
| 12 | BC_MODE | C | 1 | 0 | Broadcasting Mode: S, M, Space; Stereo, Mono |
| 13 | BRDR_LAT | N | 7 | 0 | Not Used |
| 14 | BRDR_LONG | N | 8 | 0 | Not Used |
| 15 | BORDER | N | 7 | 1 | Closest distance to Canada US Border(km)* |
| 16 | CAN_LAND | N | 7 | 1 | Closest distance to Canada Land Edge* |
| 17 | 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 | Not Used |
| 20 | ST_MOD | D | 8 | 1 | Not Used |
| 21 | OK_DUMP | D | 8 | 1 | Not Used |
| 22 | DOC_FILE | N | 5 | 0 | ISED's file number |
| 23 | DEC_NUMBER | N | 6 | 0 | CRTC Decision Number |
| 24 | UNATTENDED | C | 1 | 0 | Not used |
| 25 | CERT_NUMB | C | 6 | 0 | Not used |
| 26 | SCMO | C | 1 | 0 | Subsidiary Carrier Multiple Operation Code* |
| 27 | AUTO_PROG | C | 1 | 0 | Not used |
| 28 | BEAM_TILT | N | 5 | 1 | Beam Tilt Angle in Degrees; Positive pointing downwards from horizontal. |
| 29 | EHAATT | N | 7 | 1 | Effective Height of Antenna Above Terrain |
| 30 | ERPVAV | N | 7 | 0 | ERP Vertical Average in Watts |
| 31 | ERPVPK | N | 7 | 0 | ERP Vertical Peak Power in Watts |
| 32 | ERPHAV | N | 7 | 0 | ERP Horizontal Average in Watts |
| 33 | ERPHPK | N | 7 | 0 | ERP Horizontal Peak Power in Watts |
| 34 | GROUND_LEV | N | 6 | 1 | Ground Level at Tower Base above Sea Level in Meters |
| 35 | OVERALL_H | N | 5 | 1 | Overall Height Above ground in Meters |
| 36 | RAD_CENTER | N | 6 | 1 | Radiating Center Above Mean Sea Level |
| 37 | CHANNEL | N | 4 | 0 | Channel 201 to 300 |

* Data may not be updated or maintained

4.23 LIMCODE.DBF FM limitation codes

*File no longer maintained

4.24 LIMCODEEXTRA.DBF Additional FM limitation codes

*File no longer maintained

4.25 LOOKUP.DBF Decoding of various lookup values

*File no longer maintained

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|---|------------|----------|-----|----|---------------------|
| 1 | FIELDNAME | C | 9 | 0 | Field Name |
| 2 | CODE | C | 7 | 0 | Code used |
| 3 | ENGDESC | C | 20 | 0 | English Description |
| 4 | FRNDESC | C | 20 | 0 | French Description |

4.26 MODCALL.DBF Call sign or banner code changes

*File no longer maintained

4.27 PARAMS.DBF AM stations parameters - towers information

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|----|----------------|----------|-----|----|---|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | DNC_CODE | C | 1 | 0 | Parameter Group Code; D, N, C; Day, Night, Critical Hours |
| 3 | TOWER_NUM B | N | 2 | 0 | Tower number |
| 4 | FIELDRATIO | N | 7 | 4 | Field Ratio |
| 5 | SPACING | N | 9 | 4 | Spacing in Degrees |
| 6 | ORIENTA | N | 8 | 4 | Orientation in Degrees |
| 7 | PHASING | N | 9 | 4 | Phasing in Degrees |
| 8 | HEIGHT | N | 5 | 1 | Height in Degrees |
| 9 | TYPE_ANT | N | 2 | 0 | Type of Antenna Structure |
| 10 | A | N | 8 | 4 | Tower Field A; Valid 0 to 360.0000 |
| 11 | B | N | 8 | 4 | Tower Field B; Valid 0 to 360.0000 |
| 12 | C | N | 8 | 4 | Tower Field C; Valid 0 to 360.0000 |
| 13 | D | N | 8 | 4 | Tower Field D; Valid 0 to 360.0000 |

4.28 PROVINCE.DBF Lookup table for province information

| # | FIELD NAME | TYP E | LEN | DC | DESCRIPTION |
|---|------------|----------|-----|----|---------------------------------------|
| 1 | PROVINCE | C | 14 | 0 | Province Code |
| 2 | COUNTRY | C | 1 | 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 |

4.29 REGION.DBF Regional Data

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|------------------------------|
| 1 | CALLS_BANR | C | 14 | 0 | Station identification |
| 2 | REGION | C | 1 | 0 | Regional Code* |
| 3 | DISTRICT | C | 2 | 0 | District Code |
| 4 | INSPEC_REP | C | 1 | 0 | Not used |
| 5 | PAINTING | C | 4 | 0 | Not used |
| 6 | SPR_DAT | D | 8 | 0 | Not used |
| 7 | RSP_DAT | D | 8 | 0 | Not used |
| 8 | STDETT | D | 8 | 0 | Not used |
| 9 | AIR_CLEAR | D | 8 | 0 | Not used |
| 10 | INSPEC_DAT | D | 8 | 0 | Not used |
| 11 | RCF_DAT | D | 8 | 0 | Not used |
| 12 | STAT_TYPE | C | 2 | 0 | Type of station (AM, FM, TV) |
| 13 | DOCFEX | C | 4 | 0 | Not used |
| 14 | PROVINCE | C | 2 | 0 | Province code |
| 15 | COUNTRY | C | 2 | 0 | Country code |

* Data may not be updated or maintained

4.30 STATIONS.DBF CRTC application numbers

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|------------------------------|
| 1 | CALLSIGN | C | 12 | 0 | Station identification |
| 2 | BANNER | C | 2 | 0 | Banner code |
| 3 | TYPE | C | 2 | 0 | Type of station (AM, FM, TV) |
| 4 | CRTC_APP | N | 10 | 0 | CRTC application number |

4.31 TSID.DBF TV TSIDs

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|---|------------|------|-----|----|-----------------------|
| 1 | PROVINCE | C | 2 | 0 | Province / State Code |
| 2 | CITY | C | 20 | 0 | City name |
| 3 | CALLSIGN | C | 12 | 0 | Call sign |
| 4 | BANNER | C | 2 | 0 | Banner code |
| 5 | CHANNEL | N | 4 | 0 | Channel 2-69 |
| 6 | TSID | N | 4 | 0 | TSID |

4.32 TVLimits.txt List of TV limitations

*Tab delimited Text file not dBF

| # | DESCRIPTION |
|---|-----------------------|
| 1 | Call sign |
| 2 | Banner code |
| 3 | Limitations (English) |
| 4 | Limitations (French) |

4.33 TVSTATIO.DBF Main station information for TV, MDS, and T-SDARS stations

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|---|
| 1 | PROVINCE | C | 2 | 0 | Province / State code for service area |
| 2 | CITY | C | 20 | 0 | City name of service area |
| 3 | CALL_SIGN | C | 12 | 0 | Call sign of station |
| 4 | FREQUENCY | N | 7 | 2 | Frequency in MHz. |
| 5 | CLASS | C | 3 | 0 | Class of Station; A, B, C, D, F, N, R, S, LP, VLP |
| 6 | LATITUDE | N | 7 | 0 | Latitude coordinate of the Station's Transmitter (ddmms) |
| 7 | LONGITUDE | N | 8 | 0 | Longitude coordinate of the Station's Transmitter (dddmmss) |
| 8 | BANNER | C | 2 | 0 | AL, AP, AU, AX, CP, IC, OP, PC, RE, TD, TO, TP, UC, UN, UX: Allotment, Approved by CRTC, Approved by ISED, Auxiliary transmitter, Construction Permit, Incomplete, Operational, Proposed Channel, Referred to CRTC, Tentative Deletion, Temporary Operation, Temporary proposal, Under Consideration, Unacceptable, Under consideration – auxiliary transmitter |
| 9 | LIMITE | C | 5 | 0 | Limitation code L0 for any limitations |
| 10 | NETWORK | C | 4 | 0 | Not used |
| 11 | ANT_MODE | C | 1 | 0 | Antenna Mode; O, D; Omnidirectional or Directional |
| 12 | BC_MODE | C | 1 | 0 | Broadcasting Mode: S, P, B, Space; Stereo, Second Audio Channels or Both |
| 13 | OFFSET | C | 1 | 0 | TV Offset Code. Space, +, -, Z |
| 14 | OFF_PREC | C | 1 | 0 | Frequency offset precision used: T, F; True or False |
| 15 | BRDR_LAT | N | 7 | 0 | Not Used |
| 16 | BRDR_LONG | N | 8 | 0 | Not Used |
| 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 | Not Used |
| 22 | ST_MOD | D | 8 | 1 | Not Used |

| # | FIELD NAME | TYPE | LEN | DC | DESCRIPTION |
|----|------------|------|-----|----|--|
| 23 | OK_DUMP | D | 8 | 1 | Not Used |
| 24 | DOC_FILE | N | 5 | 0 | ISED's file number |
| 25 | DEC_NUMBER | N | 6 | 0 | CRTC Decision Number |
| 26 | UNATTENDED | C | 1 | 0 | Not used |
| 27 | CERT_NUMB | C | 6 | 0 | Not used |
| 28 | CLOSE_CAP | C | 1 | 0 | Not used |
| 29 | AUTO_PROG | C | 1 | 0 | Not used |
| 30 | ALLOC_ZONE | N | 1 | 0 | Allocation Planning Zone 0, 1 or 2 |
| 31 | BEAM_TILT | N | 5 | 1 | Beam Tilt Angle in Degrees; Positive pointing downwards from horizontal. |
| 32 | EHAATT | N | 7 | 1 | Effective Height of Antenna Above Terrain |
| 33 | ERPVAV | N | 7 | 0 | ERP Visual Average (NTSC) / ERP Average (DTV) in Watts |
| 34 | ERPVPK | N | 7 | 0 | ERP Visual Peak Power (NTSC) / ERP Peak Power (DTV) in Watts |
| 35 | ERPAAV | N | 7 | 0 | ERP Aural Average in Watts (NTSC) |
| 36 | ERPAPK | N | 7 | 0 | ERP Aural Peak Power in Watts (NTSC) |
| 37 | ERPVTA | N | 7 | 0 | Not used |
| 38 | ERPATA | N | 7 | 0 | Analog vs Digital: 0 Analog, 1 Digital |
| 39 | GROUND_LEV | N | 6 | 1 | Ground Level at Tower Base above Sea Level in Meters |
| 40 | OVERALL_H | N | 5 | 1 | Overall Height Above ground in Meters |
| 41 | RAD_CENTER | N | 6 | 1 | Radiating Center Above Mean Sea Level |
| 42 | CHANNEL | N | 4 | 0 | Channel 2-69 or 2500-2680 or 9998-9999 |

* Data may not be updated or maintained

5. Antenna Patterns

TV/FM/SDARS Antenna pattern data is stored as relational information in three data files, APATSTAT.DBF, APATDESC.DBF, and APATDAT.DBF. The data file APATKEY.DBF is no longer maintained.

Each antenna pattern is assigned a unique integer value referred to as the antenna pattern key (PATT_KEY) when it is added to the data extract. The pattern key assigned to a station may change the next time that the data extract is created.

The APATSTAT.DBF file is 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 station given the call sign and banner of the station.

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

The APATDAT 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.

As described in the record layouts (section 4.4), the HOR_VER field is used to indicate a (H)orizontal or (V)ertical pattern. Horizontal pattern data may not be stored for Omnidirectional stations. A station with an omnidirectional antenna may still have a Vertical antenna pattern.

The PATT_TYPE field gives information on the source and/or relative precision of the antenna pattern data. Older antenna pattern records may be specified as “THEORETICAL”, “PRECISE”, or “BRIEF”. Newer antenna pattern records are specified as “UNKNOWN”.

“BRIEF” = horizontal antenna pattern data from coverage tables in technical brief

“THEORETICAL” = theoretical vertical antenna pattern data based on Cosine Law when measured patterns were not available

“PRECISE” = horizontal or vertical digitized antenna pattern data