Requirements Checklist for PSIP data (U.S.A)
Revision C, January 2010

☐ System Time set within +/- one second. [STT]
- o STT: system_time
- o STT: GPS_UTC_offset
- o STT: daylight_savings

☐ Must have at least one Major Channel Number same as NTSC Channel number. [TVCT: major_channel_number]. Multiple major channel numbers may be used. (See A/65's Annex B for exceptions and additional usage of major channel number: www.atsc.org)

☐ TSID for your DTV station and channels correct (three places).
- o PAT: transport_stream_id
- o xVCT: transport_stream_id
- o xVCT: channel_TSID

☐ TSID for other stations correct <if other stations pointed to>. [xVCT: channel_TSID]
   TSID List @ http://www.mstv.org/docs/TSID.pdf - Not always current, but TSIDs do not change.

☐ Four EITs present and correct (at least)
- o The tables_defined field in the MGT must be 3 + highest numbered EIT.
- o The table_type fields must have the entries: 0x100 through 0x103 (at least)
- o EIT0,1, 2, 3: for each VC in the xVCT source_id = source_id in xVCT
- o For an event, if captioning present, caption_service_descriptor() present
- o For an event, if content advisory exists, content_advisory_descriptor() present
- o For an event, if audio present, AC-3_audio_stream_descriptor() present – one per each audio
  - o Optional Audio Language announcement for future programs can be done here
- o For each event, the actual program title - like the one published in the paper

☐ Channel information complete and accurate [TVCT and optionally CVCT]
- o xVCT: short_name has seven user selected characters identifying each channel
- o xVCT: program_number matches program_number in PMT (and all the PMTs must be signaled in the PAT)
- o xVCT: service_location_descriptor() entries match entries in PMT
- o xVCT: service_type equals 0x02 for MPEG-2 video with or without AC-3 audio

PSIP Options/Other

☐ Audio signaling: Must have an AC-3_audio_stream_descriptor() for each audio in the PMT. If multiple audios, must place a component_name_descriptor() for each if they are the same language (to tell them apart). Should place the language code in each AC-3_audio_stream_descriptor(). Strongly recommend place ISO_language descriptor() in each PMT (was required).

☐ Should place the language code in the AC-3_audio_stream_descriptor() in the EIT events.

☐ Cable VCT (CVCT) can provide information for cable carriage. For example, send the most used channel number used in your cable carriage in the CVTC fields major_channel_number and minor_channel_number. (It can be the three digit number or a two part number.)

☐ Optional Unique identification number for a program: content_identifier_descriptor() in EIT/PMT (A/57B)

☐ Optional Long names for Channel: [xVCT: extended_channel_name_descriptor()]

☐ Optional text information about a program: [ETT]