

137 **(e) PSK-31 Narrow-band computer to computer communications employing**  
138 **varicode emissions having designators with A, C, D, F, G, H, J or R as the first**  
139 **symbol; 2 as the second symbol; D as the third symbol; and emission J1D.**  
140 **Only a digital code of a type specifically authorized in this part may be**  
141 **transmitted.**

142

143 **(f) Test. Emissions containing no information having the designators with N as**  
144 **the third symbol. Test does not include pulse emissions with no information or**  
145 **modulation unless pulse emissions are also authorized in the frequency band.**

146

147 **(11) External RF power amplifier. A device capable of increasing power output**  
148 **when used in conjunction with, but not an integral part of, a transmitter.**

149

150 **(12) FAA. Federal Aviation Administration.**

151

152 **(13) FCC. Federal Communications Commission.**

153

154 **(14) Harmful interference. Interference which endangers the functioning of a**  
155 **radionavigation service or of other safety services or seriously degrades,**  
156 **obstructs or repeatedly interrupts a radiocommunication service operating in**  
157 **accordance with the Radio Regulations.**

158

159 **(15) Information bulletin. A message directed to widecast station operators**  
160 **consisting of subject matter of direct interest to the widecast service.**

161

162 **(16) International broadcasting station. A broadcasting station employing**  
163 **frequencies allocated to the broadcasting service between 5,950 and 26,100**  
164 **kHz, the transmissions of which are intended to be received directly by the**  
165 **general public in foreign countries.**

166

167 **(17) International Morse code. A dot-dash code as defined in International**  
168 **Telegraph and Telephone Consultative Committee (CCITT) Recommendation**  
169 **F.1 (1984), Division B, I. Morse code.**

170

171 **(18) ITU. International Telecommunication Union.**

172

173 **(19) Local control. The use of a control operator who directly manipulates the**  
174 **operating adjustments in the station to achieve compliance with the FCC**  
175 **Rules.**

176

177 **(20) National Radio Quiet Zone. The area in Maryland, Virginia and West**  
178 **Virginia Bounded by 39 deg. 15[min]N on the north, 78 deg. 30[min]W on the**  
179 **east, 37 deg. 30[min] N on the south and 80 deg. 30[min] W on the west.**

180

181 **(21) Radio Regulations. The latest ITU Radio Regulations to which the United**  
182 **States is a party.**

183

184 **(22) Remote control. The use of a control system which indirectly manipulates**  
185 **the operating adjustments in the station through a control link to achieve**  
186 **compliance with the FCC Rules.**

187

188 **(23) Spurious emission. An undesired emission, occurring on frequencies**  
189 **outside the necessary bandwidth of a transmission, the nature of which can**  
190 **potentially affect communications services on channels adjacent to or**  
191 **removed from the assigned frequency channel, the level of which may be**  
192 **reduced without affecting the information being transmitted.**

193

194 **(24) Telecommand. A one-way transmission to initiate, modify, or terminate**  
195 **functions of a device at a distance.**

196

197 **(25) Telecommand station. A widecast station that transmits communications**  
198 **to initiate, modify or terminate functions of another widecast station.**

199

200 **(26) Telemetry. A one-way transmission of measurements at a distance from**  
201 **the measuring instrument.**

202

203 **(27) Transmission Coordinator. An entity or organization recognized by**  
204 **public press and information service widecast operators whose stations**  
205 **are are licensed in the widecast service, that recommends transmit**  
206 **channels and schedules associated with operating and technical**  
207 **parameters for such stations in order to avoid or minimize potential**  
208 **interference, and maximize efficient usage of allocated service channels.**

209

210 **(28) Type-Accepted Equipment – Radio frequency transmission equipment**  
211 **which has been certified as meeting FCC technical standards with regard to**  
212 **frequency stability, spurious emissions, and other technical parameters as**  
213 **established by the FCC.**

214

215 **(29) ULS (Universal Licensing System). The consolidated database, application**  
216 **filing system and processing system for all Wireless Telecommunications**  
217 **Services.**

218

219 **(30) Universally Accepted Definitions - definitions of technical symbols used**  
220 **in this part are:**

221

222 **(a) HF (high frequency). The frequency range 3-30 MHz.**

223

224 **(b) Hz. Hertz.**

225

226 **(c) m. Meters.**

227

228 **(d) PEP (peak envelope power). The average power supplied to the antenna**  
229 **transmission line by a transmitter during one RF cycle at the crest of the**  
230 **modulation envelope taken under normal operating conditions.**

231

232 **(e) RF . Radio frequency.**

233

234 **(f) W. Watts.**

235

236 **(g) WPM. Words-Per-Minute**

237

238 **(31) Varicode – A digital signalling mode wherein the length of the code bit**  
239 **combination varies inversely with the frequency of usage in the English**  
240 **language of the character being transmitted.**

241

242 **(32) Widecast – Data or information transmissions intended for reception by**  
243 **the general public of the United States of America employing shortwave/HF**  
244 **frequencies between 3 and 30 megahertz, and whose area of coverage extends**  
245 **beyond those normally served by conventional AM/FM/TV broadcast stations,**  
246 **and not intended to extend to areas and regions served by the international**  
247 **broadcast service.**

248

249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271

**Sec. 96.11 Licensing Requirements.**

**(a) A license for a widecast station will be issued only after a satisfactory showing has been made in regard to the following, among others:**

**(1) That there is a need for the proposed Homeland Public Press and Information Service Widecast station in the geographical area of the United States where the station is to be established.**

**(2) That the necessary information resources are available to the applicant to render the proposed Homeland Public Press and Information Service Widecast station viable.**

**(3) That the technical operation of the proposed station will be conducted by qualified persons.**

**(4) That the applicant is legally and technically qualified and capable of providing adequate technical facilities to carry forward the station and service proposed.**

**(5) That the public interest, convenience and necessity will be served through the operation of the proposed station.**

272 **Sec. 96.16 Operator/Station Licensee Grant Qualifications:**

273

274 **(a) Widecast station licenses shall be granted only to Citizens of the United**  
275 **States of America, its territories or possessions.**

276

277 **(b) Licensees shall be of good character as provided for in the FCC character**  
278 **policy statements.**

279

280 **(c) Licensees shall possess technical competence and expertise in RF**  
281 **transmission technology and practices. Possession of a General**  
282 **Radiotelephone License or Advanced Class or above Amateur Radio License**  
283 **shall be considered sufficient evidence to satisfy this requirement.**

284

285 **Sec. 96.21 Station License Required.**

286

287 **(a) The station apparatus must be under the physical control of a person**  
288 **named in a widecast station license grant on the ULS consolidated license**  
289 **database, or**

290

291 **(b) as authorized by the station licensee, a person who holds a restricted**  
292 **radiotelephone, general radiotelephone, or advanced class or above**  
293 **amateur radio operators license.**

294

295 **Sec. 96.26 Application For Station License**

296

297 **Applications for radio stations in the Homeland Public Press and Information**  
298 **Widecast Service shall be made on FCC Form 601 Main Form, accompanied by**  
299 **FCC Form 601 Schedule D, and FCC Form 601 Schedule W.**

300

301

302 **Sec 96.31 Regulatory And Licensing Fees**

303

304 **Fees and regulatory charges for applications for or established stations in the**  
305 **Homeland Public Press and Information Widecast Service shall be waived.**  
306 **(See Sec. 1.1114 and Sec. 1.1162 of this chapter for guidelines)**

307

308

309 **Sec. 96.36 Posting of Station License**

310

311 **The station license or copy thereof shall be posted in a conspicuous location.**

312

313

314 **Sec. 96.41 Control Operation Required.**

315

316 **When transmitting, each widecast station must have a control operator. The**  
317 **control operator must be a person:**

- 318 **(a) For whom a widecast operator/station license grant appears on the ULS**  
319 **consolidated licensee database, or**  
320 **(b) Who is authorized to operate the station as provided in Sec. 96.21(b) of this**  
321 **part.**

322

323

324 **Sec. 96.46 Restrictions On Station Location.**

325

- 326 **(a) Before placing a Homeland Public Press and Information Service Widecast**  
327 **station on land of environmental importance or that is significant in**  
328 **American history, architecture or culture, the licensee may be required to**  
329 **take certain actions prescribed by Secs. 1.1305-1.1319 of this chapter.**

330

- 331 **(b) No Homeland Public Press and Information Service Widecast station shall**  
332 **be allowed within 4800 meters (3 miles) of an FCC monitoring facility.**  
333 **Furthermore, the widecast station**

334

- 335 **(c) must protect that facility from harmful interference. Failure to do so could**  
336 **result in imposition of operating restrictions upon the widecast station by a**  
337 **District Director pursuant to Sec. 0.314(c) of this part. Geographical**  
338 **coordinates of the facilities that require protection are listed in Sec. 0.121(c)**  
339 **of this chapter.**

340

341 **(d) Before causing or allowing a public press and information service widecast**  
342 **station to transmit from any place where the operation of the station could**  
343 **cause human exposure to RF electromagnetic field levels in excess of those**  
344 **allowed under Sec. 1.1310 of this chapter, the licensee is required to take**  
345 **certain actions.**

346  
347 **(1) The licensee must perform the routine RF environmental evaluation**  
348 **prescribed by Sec. 1.1307(b) of this chapter, if the power of the licensee's**  
349 **station exceeds the limits given in the following table:**

350  
351 ----- Evaluation required if power Wavelength band \1\ (watts) exceeds -----

352  
353 ----- HF -----

354	<b>4.56 MHz.....</b>	<b>500 watts</b>
355	<b>6.90 MHz.....</b>	<b>500 watts</b>
356	<b>7.70 MHz.....</b>	<b>500 watts</b>
357	<b>10.35 MHz.....</b>	<b>425 watts</b>
358	<b>13.125 MHz.....</b>	<b>250 watts</b>
359	<b>13.90 MHz.....</b>	<b>125 watts</b>
360	<b>14.60 MHz.....</b>	<b>200 watts</b>
361	<b>18.60 MHz.....</b>	<b>100 watts</b>

362 **Power = ERP (effective radiated power).**

363

364 **(2) If the routine environmental evaluation indicates that the RF**  
365 **electromagnetic fields could exceed the limits contained in Sec. 1.1310 of**  
366 **this chapter in accessible areas, the licensee must take action to prevent**  
367 **human exposure to such RF electromagnetic fields. Further information on**  
368 **evaluating compliance with these limits can be found in the FCC's OET**  
369 **Bulletin Number 65, "Evaluating Compliance with FCC Guidelines for**  
370 **Human Exposure to Radio Frequency Electromagnetic Fields."**

371

372

373 **Sec. 96.51 General Standards.**

374

375 **(a) In all respects not specifically covered by FCC Rules each Homeland Public**  
376 **Press and Information Service Widecast station must be operated in**  
377 **accordance with good engineering and good operating practice.**

378

379 **(b) Each station licensee and each control operator must engage in and adhere**  
380 **to cooperative agreements in selecting transmitting channels and**  
381 **transmission scheduling, so as to make the most effective use of the**  
382 **allocated public press and information widecast service frequencies. No**  
383 **frequency will be assigned for the exclusive use of any station.**

384

385 **(c) At all times and on all frequencies, each control operator must give priority**  
386 **to or assistance to stations or government agencies requesting assistance**  
387 **in providing emergency or disaster information.**

388

389

390 **Sec. 96.56 Station Licensee Responsibilities.**

391

392 **(a) The station licensee is responsible for the proper operation of the station in**  
393 **accordance with the FCC Rules. When the control operator is a different**  
394 **operator than the station licensee, both persons are equally responsible for**  
395 **proper operation of the station.**

396

397 **(b) The station licensee must designate the station control operator. The FCC**  
398 **will presume that the station licensee is also the control operator, unless**  
399 **documentation to the contrary is in the station records. The names of all**  
400 **control operators shall be posted adjacent to the Station Authorization.**

401

402 **(c) The station licensee must make the station and the station records**  
403 **available for inspection upon request by an FCC representative. When deemed**  
404 **necessary by an EIC to assure compliance with the FCC Rules, the station**  
405 **licensee must maintain a written record of station operations containing such**  
406 **items of information as the EIC may require in accord with Sec. 0.314(j) of the**  
407 **FCC Rules.**

408 **Sec. 96.61 Control Operator Duties.**

409

410 **(a) The control operator must ensure the immediate proper operation of the**  
411 **station, regardless of the type of control.**

412

413 **(b) A station may only be operated in the manner and to the extent permitted**  
414 **by the privileges as authorized in the station authorization.**

415

416

417 **Sec. 96.66 Station Control.**

418

419 **(a) Each Homeland Public Press and Information Service Widecast station**  
420 **must have at least one control point.**

421

422 **(b) When a station is being locally controlled, the control operator must be at**  
423 **the control point. Any station may be locally controlled.**

424

425 **(c) When a station is being remotely controlled, the control operator must be at**  
426 **the control point. Any station may be remotely controlled.**

427

428 **(d) When a station is being automatically controlled, the control operator need**  
429 **not be at the control point. Only stations specifically designated elsewhere in**  
430 **this part may be automatically controlled. Automatic control must cease upon**

431 **notification by an EIC that the station is transmitting improperly or causing**  
432 **harmful interference to other stations. Provision shall be made such that**  
433 **should the station cease transmitting information for a period not to exceed**  
434 **three minutes, the station shall cease carrier transmission. Restoration of**  
435 **carrier shall be done manually by the control operator.**

436

437

438 **Sec. 96.71 Authorized Transmissions.**

439

440 **(a) A public press and information service widecast station may transmit the**  
441 **following types of information:**

442

443 **(1) News and information of a nature deemed to be of interest to the general**  
444 **public.**

445

446 **(2) Transmissions necessary to assist with or fulfill requests by governmental**  
447 **or emergency agencies to disseminate information of a critical or urgent**  
448 **nature in the event of an incident of a natural or man-made disaster, act of**  
449 **terrorism, act of war, or situations and/or events otherwise endangering the**  
450 **general public.**

451

452 **(3) Communications directly related to the immediate safety of human life or**  
453 **the protection of property may be broadcast for dissemination to the public**

454 **as an additional means of communication reasonably available before or at**  
455 **the time of the event.**

456

457 **(4) Transmissions necessary to disseminate Weather information and**  
458 **forecasts, radio propagation information, public advisory and marine**  
459 **advisory bulletins.**

460

461 **(5) Traffic lists advising members of non-profit marine e-mail organizations of**  
462 **messages awaiting retrieval.**

463

464 **(6) Brief transmissions necessary to make adjustments to the station;**

465

466 **(7) Telecommand;**

467

468 **(8) Transmissions of telemetry.**

469

470

471

472

473

474

475

476

477 **Sec. 96.76 Prohibited Transmissions.**

478

479 **(a) No Homeland Public Press and Information Service Widecast station shall**  
480 **transmit:**

481

482 **(1) Communications specifically prohibited elsewhere in this part;**

483

484 **(2) Communications for hire or for material compensation, direct or indirect,**  
485 **paid or promised, except as otherwise provided in these rules;**

486

487 **(3) Communications in which the station licensee or control operator has a**  
488 **pecuniary interest, including communications on behalf of an employer.**

489

490 **(4) Communications intended to facilitate a criminal act;**

491

492 **(5) Messages in codes or ciphers intended to obscure the meaning thereof;**

493

494 **(6) Obscene or indecent words or language;**

495

496 **(7) False or deceptive messages, signals or identification;**

497

498

499

500 **Sec. 96.81 Frequency Allocation:**

501

502 **The following frequencies shall be designated for use by the Homeland Public**

503 **Press and Information Service Widecast service on a primary basis:**

504

- |     |                        |                        |
|-----|------------------------|------------------------|
| 505 | <b>1. 4.5674 MHz</b>   | <b>13. 13.1294 MHz</b> |
| 506 | <b>2. 4.5734 MHz</b>   | <b>14. 13.8724 MHz</b> |
| 507 | <b>3. 6.888 MHz</b>    | <b>15. 13.8784 MHz</b> |
| 508 | <b>4. 6.894 MHz</b>    | <b>16. 13.8884 MHz</b> |
| 509 | <b>5. 6.900 MHz</b>    | <b>17. 13.9520 MHz</b> |
| 510 | <b>6. 6.994 MHz</b>    | <b>18. 14.5950 MHz</b> |
| 511 | <b>7. 7.777 MHz</b>    | <b>19. 14.6010 MHz</b> |
| 512 | <b>8. 7.783 MHz</b>    | <b>20. 14.6070 MHz</b> |
| 513 | <b>9. 10.337 MHz</b>   | <b>21. 14.6130 MHz</b> |
| 514 | <b>10. 10.3724 MHz</b> | <b>22. 18.5940 MHz</b> |
| 515 | <b>11. 13.1174 MHz</b> | <b>23. 18.6000 MHz</b> |
| 516 | <b>12. 13.1234 MHz</b> | <b>24. 18.6060 MHz</b> |

517 **Petitioner's Note –The petitioner states that the table submitted above is**  
518 **the result of research of the FCC's Uniform Licensing System Database as is**  
519 **available to the general public, utilizing the Percon, Inc. Uniform Licensing**  
520 **System (ULS) Data Base Search Service.**

521

522 **Consideration has been made by the petitioner so that frequency allocation**  
523 **conflicts with other known licensees is avoided, and suitable guard band**  
524 **separations established to minimize or eliminate possible interference with**  
525 **adjacent channel services or licensees.**

526

527 **The Government Master File Frequency Database is not available to the general**  
528 **public, so some frequencies submitted for consideration may not be suitable**  
529 **for allocation to the widecast service due to conflicts with military or other**  
530 **governmental agency frequency assignments.**

531

532 **The petitioner requests that the Commission render consideration comparable**  
533 **to that given to The SailMail Organization, CruiseEmail Corp, and particularly**  
534 **Global2way Acquisition, LLC, which has resulted in Global2way's assignment**  
535 **of 954 channels in the HF Spectrum.**

536

537

538 **Sec. 96.86 Transmission Scheduling And Coordination**

539

540 **Homeland Public Press and Information Service Widecast stations shall be**  
541 **permitted to use any and all frequencies allocated to the Homeland Public**  
542 **Press and Information Service Widecast service, on a basis determined by a**  
543 **central coordinating entity whose function shall be to arrange frequency and**

544 **transmission time schedules so as to attain maximum efficiency in spectrum**  
545 **usage and service coverage.**

546

547

548 **Sec. 96.91 Authorizations.**

549

550 **Authorizations issued to Homeland Public Press and Information Service**  
551 **Widecast stations by the Commission will be authorizations to permit the use**  
552 **of type-accepted transmitting equipment and antenna systems of good**  
553 **engineering design for non-directional/omni-directional transmissions, and to**  
554 **permit widecasting to the general public of the United States, its territories and**  
555 **possessions, and on frequencies so allocated for this service by the FCC.**

556 **Frequencies and Times of transmissions for each station shall be determined**  
557 **through cooperative and coordinated agreements with a coordinating entity**  
558 **established to perform said services, and approved by the FCC, as provided**  
559 **for in Sec. 96.86 of this part.**

560

561

562 **Sec. 96.96 Authorized Transmission Modes**

563

564 **Homeland Public Press and Information Widecast stations shall be authorized**  
565 **to transmit signals employing any of the following formats:**

566

567 **(a) Radioteleprinter - (RTTY) The use of radio teleprinter transmission**  
568 **employing International Telegraphic Alphabet #2 (ITA#2/Baudot) is**  
569 **authorized on all allocated frequencies, utilizing**

570

571 **(1) Frequency-shift keying generated by changing the operating frequency of a**  
572 **stable master oscillator in accordance with the transmitted data stream,**  
573 **mode designation F1D,**

574 **or**

575 **(2) by utilization of a precision audio oscillator whose frequency is shifted in**  
576 **accordance with the transmitted data stream, and mixed within a suitably**  
577 **stable single-sideband exciter thereby generating the assigned channel**  
578 **frequencies, mode designation J2B/J2D.**

579

580 **(3) Authorized transmission rates are 60 WPM (45.45 baud), 67 WPM (50 baud),**  
581 **75 WPM (56.9 baud), and 100 WPM (74.2 baud).**

582

583 **(4) Frequency shift shall be limited to a maximum of 850 Hz .**

584

585 **(B) AMTOR/SITOR AMTOR/SITOR (Forward Error Correction) transmissions**  
586 **are authorized on all allocated frequencies utilizing FEC protocol and ITA#2**  
587 **signalling code. Baud rate shall be 100 baud, and frequency shift shall not**  
588 **exceed 425 Hz., mode designation F1D or J2B/J2D**

589

590 **(C) PSK-31 PSK-31 transmission shall be authorized on all allocated**  
591 **frequencies. Signalling code shall be varicode, and the signalling rate shall**  
592 **be at a rate correspondent with a transmission speed approximating 48.8**  
593 **WPM, mode designation J2B/J2D**

594

595 **(D) The maximum allowable channel bandwidth for all stations shall be 3**  
596 **Kilohertz.**

597

598 **(E) Transmitter frequencies shall be adjusted such that the mark and space**  
599 **frequencies are spaced one-half the shift frequency above and below the**  
600 **assigned channel frequency.**

601

602

603 **Sec. 96.101 Experimental Transmissions**

604 **Homeland Public Press and Information Service Widecast stations, when**  
605 **authorized by the FCC, shall be allowed experimental transmissions employing**  
606 **transmission formats and coding approved for such experimentation, provided**  
607 **that such transmissions do not produce emissions whose bandwidth exceeds**  
608 **that authorized in the station instrument of authorization. Experimental periods**  
609 **shall not exceed 180 days in duration, and a detailed report of the results and**  
610 **effectiveness of said experimental transmissions shall be submitted to the**  
611 **commission within thirty days of the end of the experimental period.**

612

613 **Sec. 96.106 Normal license period.**

614

615 **All Homeland Public Press and Information Service Widecast station licenses**  
616 **will be issued so as to expire at the hour of 3 a.m. local time and will be issued**  
617 **for a normal period of 8 years expiring November 1.**

618

619

620 **Sec. 96.111 Operating Power.**

621

622 **(A) Homeland Public Press and Information Service Widecast transmitter**  
623 **systems shall operate with a minimum transmitter power output of 500**  
624 **watts, and a maximum transmitter power output of 2000 watts. Power**  
625 **output shall remain constant throughout the duration of the transmission**  
626 **period.**

627

628 **(B) Effective Radiated Power shall not exceed 4000 watts when the**  
629 **transmitting system is operated with an antenna with gain characteristics. (See**  
630 **96.121(b) of this part.)**

631

632

633

634

635

636 **Sec. 96.116 Emergency Power Operation.**

637

638 **Homeland Public Press and Information Service Widecast stations shall be**  
639 **capable of operation on power sources other than the public power supply**  
640 **system. It is desirable that stations be capable of operation on auxiliary power**  
641 **sources such as gasoline or diesel powered generator sets capable of**  
642 **providing 5000 watts.**

643

644

645 **Sec. 96.121 Antenna Systems.**

646

647 **(a) All Public Press and Information Service widecast stations shall operate**  
648 **with non-directional antennas. Such antennas shall be designed and**  
649 **constructed such as to provide good radiating efficiency, with counterpoise**  
650 **and/or ground radial systems consistent with the design of the antenna, and**  
651 **with available space around the base of the antenna.**

652

653 **(b) Gain antennas shall be non-directional and have gain characteristics not to**  
654 **exceed 3dBd (3dB gain over a reference half-wave vertical dipole).**

655

656

657

658

659 **Sec. 96.126 Frequency Monitors.**

660

661 **(a) The licensee of each Public Press and Information Service widecast station**  
662 **shall operate a frequency monitor at the transmitter independent of the**  
663 **frequency control of the transmitter.**

664

665 **(b) The frequency monitor shall be designed and constructed in accordance**  
666 **with good engineering practice. It shall have an accuracy sufficient to**  
667 **determine that the operating frequency is within one-half of the allowed**  
668 **tolerance.**

669

670

671 **Sec. 96.131 Modulation Monitors.**

672

673 **The licensee of each Homeland Public Press and Information Service Widecast**  
674 **station shall have a modulation monitor system in operation at the transmitter.**

675 **This system shall consist of a dedicated high-stability receiver, with a**  
676 **demodulation arrangement such as to visually display the transmitted text,**  
677 **either on a screen or by printed copy.**

678

679

680

681