

U N C L A S S I F I E D

SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 041002
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	121214
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 041002
BUR.	BUREAU	(BUR) 01	NAIC
NTS.	IRAC NOTES	(NTS) 01	E039
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	K1000
FRU.	FRQ BAND UPPER LIMIT	(FRU) 01	K24990
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 01	K2495-2505
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 02	K4995-5005
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 03	K9995-10005
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 04	K13360-13410
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 05	K14990-15010
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 06	K19990-20010
FBE.	EXCLUDED FREQUENCY BAND	(FBE) 07	K21850-21870
STC.	STATION CLASS	(STC) 01	SN
EMS.	EMISSION DESIGNATOR	(EMS) 01	200K00NON
PWR.	TRANSMITTER POWER	(PWR) 01	W5
STC.	STATION CLASS	(STC) 02	SN
EMS.	EMISSION DESIGNATOR	(EMS) 02	50K00PON
PWR.	TRANSMITTER POWER	(PWR) 02	W10
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182114N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XRC.	TX STATION CONTROL	(XRC) 01	SOUNDER
XAG.	TX ANTENNA GAIN	(XAG) 01	0
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	ND
PDD.	PULSE DURATION	(PDD) 01	100
PRR.	PULSE REPETITION RATE	(PRR) 01	40
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	U, IONOSONDE
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 02	U, CADI
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182114N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RAG.	RX ANTENNA GAIN	(RAG) 01	0
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	ND
DOC.	DOCKET NUMBERS OF OLDER AUTHORIZATIONS	(DOC) 01	I6827844, 6810, I7014824, 7005

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DOC.	DOCKET NUMBERS OF OLDER AUTHORIZATIONS	(DOC) 02	I8522737,I7334375,I18025741
DOC.	DOCKET NUMBERS OF OLDER AUTHORIZATIONS	(DOC) 03	I7534325
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	ARECOBO,OBSERVATORY,7878782612X245
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	CORNELL UNIVERSITY
RTN.	ROUTINE AGENDA ITEM	(RTN) 01	R
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	INADVERTENTLY EXPIRED SERIAL NSF 90051.CHANNEL PLAN 2-20MHZ WITH 50 KHZ
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	OMITTING ALL EXCLUDED FREQUENCIES,PULSE DURATION 100 MICROSECONDS,PULSE
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	REPETITION RATE 40 PULSES PER SECOND,PULSES PER CHANNEL 8,SCAN RATE 4
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	SCANS PER HOUR, SCAN INTERVAL EVERY 15 MINUTES,ANTENNA TYPE VERTICALLY
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	DIRECTIVE ANTENNA, AZIMUTH IS NON DIRECTIVE.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0876776
AUS.	IRAC DOCKET NUMBER	(AUS) 02	J0143975
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	040812
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	121213
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 130009
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	130403
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 130009
EXD.	EXPIRATION DATE (YYMMDD)	(EXD) 01	180401
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	K3175
STC.	STATION CLASS	(STC) 01	XR
EMS.	EMISSION DESIGNATOR	(EMS) 01	100H00N0N
PWR.	TRANSMITTER POWER	(PWR) 01	K600
STC.	STATION CLASS	(STC) 02	XR
EMS.	EMISSION DESIGNATOR	(EMS) 02	50K00P0N
PWR.	TRANSMITTER POWER	(PWR) 02	K600
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182037N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XAG.	TX ANTENNA GAIN	(XAG) 01	21
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C,CCP OT139FPS118
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182037N

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RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RAG.	RX ANTENNA GAIN	(RAG) 01	21
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	U,NSF CUSTOM
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	EXPERIMENTAL HF IONOSPHERIC HEATING FACILITY USED FOR THE STUDY OF
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	PLASMA PHYSICS IN THE EARTHS IONOSPHERE. EXPERIMENTS ARE CONDUCTED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	INFREQUENTLY, USUALLY A FEW TIMES PER YEAR. CHANNEL WILL BE MONITORED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	BEFORE TRANSMITTING TO AVOID INTERFERENCE. ANTENNA IS A 305 M DISH THAT
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	POINTS STRAIGHT UP AT ALL TIMES. ANTENNA BEAMWIDTH LESS THAN 15 DEG.
SUP.	SUPPLEMENTARY DETAILS	(SUP) 06	EXPERIMENTS SUPPORT IMPROVEMENTS IN SCIENCE OF RADIO PROPAGATION.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0906223
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	130402
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	130402
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 130008
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	130419
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 130008
EXD.	EXPIRATION DATE (YYMMDD)	(EXD) 01	180401
BUR.	BUREAU	(BUR) 01	NAIC
NTS.	IRAC NOTES	(NTS) 01	S070
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	K5100
STC.	STATION CLASS	(STC) 01	XR
EMS.	EMISSION DESIGNATOR	(EMS) 01	100H00N0N
PWR.	TRANSMITTER POWER	(PWR) 01	K600
STC.	STATION CLASS	(STC) 02	XR
EMS.	EMISSION DESIGNATOR	(EMS) 02	50K00P0N
PWR.	TRANSMITTER POWER	(PWR) 02	K600
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182037N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XAG.	TX ANTENNA GAIN	(XAG) 01	23
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C,CCP OT139FPS118
RSC.	RX STATE/COUNTRY	(RSC) 01	PR

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RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182037N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RAG.	RX ANTENNA GAIN	(RAG) 01	23
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	U,NSF CUSTOM
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	EXPERIMENTAL HF IONOSPHERIC HEATING FACILITY USED FOR THE STUDY OF
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	PLASMA PHYSICS IN THE EARTHS IONOSPHERE. EXPERIMENTS ARE CONDUCTED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	INFREQUENTLY, USUALLY A FEW TIMES PER YEAR. CHANNEL WILL BE MONITORED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	BEFORE TRANSMITTING TO AVOID INTERFERENCE. ANTENNA IS A 305 M DISH THAT
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	POINTS STRAIGHT UP AT ALL TIMES. ANTENNA BEAMWIDTH LESS THAN 10 DEG.
SUP.	SUPPLEMENTARY DETAILS	(SUP) 06	EXPERIMENTS SUPPORT IMPROVEMENTS IN SCIENCE OF RADIO PROPAGATION.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0906236
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	130418
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	130418
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 130007
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	130403
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 130007
EXD.	EXPIRATION DATE (YYMMDD)	(EXD) 01	180401
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	K8175
STC.	STATION CLASS	(STC) 01	XR
EMS.	EMISSION DESIGNATOR	(EMS) 01	100H00N0N
PWR.	TRANSMITTER POWER	(PWR) 01	K600
STC.	STATION CLASS	(STC) 02	XR
EMS.	EMISSION DESIGNATOR	(EMS) 02	50K00P0N
PWR.	TRANSMITTER POWER	(PWR) 02	K600
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182037N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XAG.	TX ANTENNA GAIN	(XAG) 01	26
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C,CCP OT139FPS118

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RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182037N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RAG.	RX ANTENNA GAIN	(RAG) 01	26
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	U,NSF CUSTOM
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	EXPERIMENTAL HF IONOSPHERIC HEATING FACILITY USED FOR THE STUDY OF
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	PLASMA PHYSICS IN THE EARTHS IONOSPHERE. EXPERIMENTS ARE CONDUCTED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	INFREQUENTLY, USUALLY A FEW TIMES PER YEAR. CHANNEL WILL BE MONITORED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	BEFORE TRANSMITTING TO AVOID INTERFERENCE. ANTENNA IS A 305 M DISH THAT
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	POINTS STRAIGHT UP AT ALL TIMES. ANTENNA BEAMWIDTH LESS THAN 10 DEG.
SUP.	SUPPLEMENTARY DETAILS	(SUP) 06	EXPERIMENTS SUPPORT IMPROVEMENTS IN SCIENCE OF RADIO PROPAGATION.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0906254
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	130402
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	130402
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 120004
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	120823
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 120004
EXD.	EXPIRATION DATE (YYMMDD)	(EXD) 01	170523
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M46.8
STC.	STATION CLASS	(STC) 01	XT
EMS.	EMISSION DESIGNATOR	(EMS) 01	600K00Q9W
PWR.	TRANSMITTER POWER	(PWR) 01	K40
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182037N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	497
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	150
XAG.	TX ANTENNA GAIN	(XAG) 01	40

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XAT.	TX ANTENNA NAME	(XAT) 01	SPHRCLFLCT
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	T
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	T
PRR.	PULSE REPETITION RATE	(PRR) 01	1K
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C, TYC468
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182037N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RAG.	RX ANTENNA GAIN	(RAG) 01	40
RAT.	RX ANTENNA NAME	(RAT) 01	SPHRCLFLCT
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	T
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	T
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	U, ARECIBO
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	WITHIN 20 DEGREES OF ZENITH
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	ARECIBO OBSERVATORY
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 03	POINT OF CONTACT IS SPECTRUM MGR
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 04	NSF, 703-292-4892
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	RADAR FOR METEOR SCATTER SCIENCE EXPERIMENTS ANTENNA IS A 1000 FT
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	DIAMETER SPHERICAL REFLECTOR.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0829593
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	120822
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	120822
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 760016
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	121205
CLA.	CLASSIFICATION	(CLA) 01	U
BUR.	BUREAU	(BUR) 01	NAIC
MFI.	MAJOR FUNCTION IDENTIFIER	(MFI) 01	ADMINISTRATIVE
NTS.	IRAC NOTES	(NTS) 01	S145
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M150.195
STC.	STATION CLASS	(STC) 01	ML
EMS.	EMISSION DESIGNATOR	(EMS) 01	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 01	W2
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XRD.	TX AUTHORIZED RADIUS	(XRD) 01	2B

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XCL.	TX CALL SIGN	(XCL) 01	KJ 8203
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C,MOTH23DEN
NTT.	TX NUMBER OF STATIONS	(NTT) 01	10
NAM.	TX NETWORK NAME	(NAM) 01	NET
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	C,MOTH23DEN
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	ARECIBO OBSERVATORY/CORNELL UNIV.
RTN.	ROUTINE AGENDA ITEM	(RTN) 01	R
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	USED FOR PLANT MAINTENANCE. ARECIBO OBSERVATORY HAS EQUIPMENT ON THIS
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	FREQUENCY BY ERROR. NO INTERFERENCE NOTED BECAUSE OF INTERVENING HILLS.
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	CONVERSION FROM TEMPORARY.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0876788
AUS.	IRAC DOCKET NUMBER	(AUS) 02	I7636143
AUS.	IRAC DOCKET NUMBER	(AUS) 03	J0168802
AUS.	IRAC DOCKET NUMBER	(AUS) 04	I9358138
AUS.	IRAC DOCKET NUMBER	(AUS) 05	I9089430
AUS.	IRAC DOCKET NUMBER	(AUS) 06	I8422750
AUS.	IRAC DOCKET NUMBER	(AUS) 07	I7934026
AUS.	IRAC DOCKET NUMBER	(AUS) 08	I7623748
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	760622
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	121204
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 700016
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	140806
CLA.	CLASSIFICATION	(CLA) 01	U
BUR.	BUREAU	(BUR) 01	NAIC
MFI.	MAJOR FUNCTION IDENTIFIER	(MFI) 01	RDTE SUPPORT
NTS.	IRAC NOTES	(NTS) 01	S145
NTS.	IRAC NOTES	(NTS) 02	S399
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M163.4875
STC.	STATION CLASS	(STC) 01	ML
EMS.	EMISSION DESIGNATOR	(EMS) 01	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 01	W30
TME.	TIME	(TME) 01	1
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO

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XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XRD.	TX AUTHORIZED RADIUS	(XRD) 01	24B
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	ND
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	V
NTT.	TX NUMBER OF STATIONS	(NTT) 01	10
NAM.	TX NETWORK NAME	(NAM) 01	NET
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	ND
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	V
POC.	REQUESTOR DATA	(POC) 01	GLEN LANGSTON,7032924937,140429
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	ARECIBO OBS., NAIC
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	SECURITY
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	AGENCY WILL COMPLY WITH 4.3.7 BY JANUARY 1, 2019.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J1019941
AUS.	IRAC DOCKET NUMBER	(AUS) 02	I7139581
AUS.	IRAC DOCKET NUMBER	(AUS) 03	J0212111
AUS.	IRAC DOCKET NUMBER	(AUS) 04	I9407424
AUS.	IRAC DOCKET NUMBER	(AUS) 05	I8993406
AUS.	IRAC DOCKET NUMBER	(AUS) 06	I8425228
AUS.	IRAC DOCKET NUMBER	(AUS) 07	I7934467
AUS.	IRAC DOCKET NUMBER	(AUS) 08	I7015432
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	700622
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	140805
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 780062
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	060314
CLA.	CLASSIFICATION	(CLA) 01	U
BUR.	BUREAU	(BUR) 01	NAIC
MFI.	MAJOR FUNCTION IDENTIFIER	(MFI) 01	RDTE SUPPORT
NTS.	IRAC NOTES	(NTS) 01	S399
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M165.1125
STC.	STATION CLASS	(STC) 01	FB
EMS.	EMISSION DESIGNATOR	(EMS) 01	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 01	W50
STC.	STATION CLASS	(STC) 02	ML
EMS.	EMISSION DESIGNATOR	(EMS) 02	16K00F3E

U N C L A S S I F I E D

PWR.	TRANSMITTER POWER	(PWR) 02	W10
TME.	TIME	(TME) 01	1
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664509W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	242
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	15
XRC.	TX STATION CONTROL	(XRC) 01	NAIC
XCL.	TX CALL SIGN	(XCL) 01	KZH 814
XAG.	TX ANTENNA GAIN	(XAG) 01	8
XAT.	TX ANTENNA NAME	(XAT) 01	COLLINEAR
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	ND
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	V
EQS.	OFF-THE-SHELF EQUIPMENT	(EQS) 01	LMS
NTT.	TX NUMBER OF STATIONS	(NTT) 01	30
NAM.	TX NETWORK NAME	(NAM) 01	NAIC ELEC MAINT
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664509W
RRD.	RX AUTHORIZED RADIUS	(RRD) 01	32
RRC.	RX CONTROL	(RRC) 01	NAIC
RAG.	RX ANTENNA GAIN	(RAG) 01	0
RAT.	RX ANTENNA NAME	(RAT) 01	WHIP
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	ND
DOC.	DOCKET NUMBERS OF OLDER AUTHORIZATIONS	(DOC) 01	I6913523
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	ARECIBO OBSERVATORY, CORNELL UNIV
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	CONTROL ROOM
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	COMM SYSTEM FOR INTERNAL USE ONLY. POINT OF CONTACT IS SPECTRUM MANAGER
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	ARECIBO, OBS PH 787-878-2612 X352
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0226856
AUS.	IRAC DOCKET NUMBER	(AUS) 02	I7851183
AUS.	IRAC DOCKET NUMBER	(AUS) 03	J0168837
AUS.	IRAC DOCKET NUMBER	(AUS) 04	I9358162
AUS.	IRAC DOCKET NUMBER	(AUS) 05	I8887909
AUS.	IRAC DOCKET NUMBER	(AUS) 06	I8333047
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	781022
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	060313
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 780068

U N C L A S S I F I E D

TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	080707
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 780068
BUR.	BUREAU	(BUR) 01	NAIC
MFI.	MAJOR FUNCTION IDENTIFIER	(MFI) 01	RDTE SUPPORT
NTS.	IRAC NOTES	(NTS) 01	S399
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M165.1125
STC.	STATION CLASS	(STC) 01	FX
EMS.	EMISSION DESIGNATOR	(EMS) 01	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 01	W10
STC.	STATION CLASS	(STC) 02	FB
EMS.	EMISSION DESIGNATOR	(EMS) 02	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 02	W10
STC.	STATION CLASS	(STC) 03	ML
EMS.	EMISSION DESIGNATOR	(EMS) 03	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 03	W10
TME.	TIME	(TME) 01	1
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	RGRNDRCB
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182620N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664015W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	46
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	6
XRC.	TX STATION CONTROL	(XRC) 01	NAIC
XCL.	TX CALL SIGN	(XCL) 01	KGT 332
XAG.	TX ANTENNA GAIN	(XAG) 01	8
XAT.	TX ANTENNA NAME	(XAT) 01	YAGI
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	220
EQS.	OFF-THE-SHELF EQUIPMENT	(EQS) 01	LMS
NTT.	TX NUMBER OF STATIONS	(NTT) 01	30
NAM.	TX NETWORK NAME	(NAM) 01	NAIC ELEC MAINT
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RSE.	RX ANTENNA ELEVATION	(RSE) 01	335
RRD.	RX AUTHORIZED RADIUS	(RRD) 01	32
RRC.	RX CONTROL	(RRC) 01	NAIC
RCL.	RX CALL SIGN	(RCL) 01	KZH 814
RAG.	RX ANTENNA GAIN	(RAG) 01	8
RAT.	RX ANTENNA NAME	(RAT) 01	YAGI

U N C L A S S I F I E D

RAH.	RX ANTENNA FEED POINT HEIGHT	(RAH) 01	151
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	40
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	ARECIBO OBSERVATORY, CORNELL UNIV
RTN.	ROUTINE AGENDA ITEM	(RTN) 01	R
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0467063
AUS.	IRAC DOCKET NUMBER	(AUS) 02	I7851190
AUS.	IRAC DOCKET NUMBER	(AUS) 03	I9709919
AUS.	IRAC DOCKET NUMBER	(AUS) 04	I8887915
AUS.	IRAC DOCKET NUMBER	(AUS) 05	I8333053
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	781022
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	080703
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 041001
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	121205
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 041001
BUR.	BUREAU	(BUR) 01	NAIC
MFI.	MAJOR FUNCTION IDENTIFIER	(MFI) 01	ADMINISTRATIVE
NTS.	IRAC NOTES	(NTS) 01	S399
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M167.3
STC.	STATION CLASS	(STC) 01	ML
EMS.	EMISSION DESIGNATOR	(EMS) 01	16K00F3E
PWR.	TRANSMITTER POWER	(PWR) 01	W25
TME.	TIME	(TME) 01	1
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664510W
XRD.	TX AUTHORIZED RADIUS	(XRD) 01	32
XRC.	TX STATION CONTROL	(XRC) 01	VISITORC
EQS.	OFF-THE-SHELF EQUIPMENT	(EQS) 01	LMS
NTT.	TX NUMBER OF STATIONS	(NTT) 01	30
NAM.	TX NETWORK NAME	(NAM) 01	NET
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664510W
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	POINT OF CONTACT IS SPECTRUM MGR
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	ARECIBO, OBSERVATORY,
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 03	PH 1-787-878-2612X 285
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 04	VISITOR CENTER

U N C L A S S I F I E D

RTN.	ROUTINE AGENDA ITEM	(RTN) 01	R
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	COMM SYSTEM FOR INTERNAL USE ONLY
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0876800
AUS.	IRAC DOCKET NUMBER	(AUS) 02	J0140019
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	040729
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	121204
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 120003
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	120906
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 120003
EXD.	EXPIRATION DATE (YYMMDD)	(EXD) 01	170523
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M430
STC.	STATION CLASS	(STC) 01	XT
EMS.	EMISSION DESIGNATOR	(EMS) 01	600K00Q9W
PWR.	TRANSMITTER POWER	(PWR) 01	M2.5
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182037N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	497
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	150
XAG.	TX ANTENNA GAIN	(XAG) 01	62
XAT.	TX ANTENNA NAME	(XAT) 01	SPHRCLFLCT
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	T
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	T
PRR.	PULSE REPETITION RATE	(PRR) 01	1K
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	U, STANFORD
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182037N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RAG.	RX ANTENNA GAIN	(RAG) 01	40
RAT.	RX ANTENNA NAME	(RAT) 01	SPHRCLFLCT
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	T
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	T
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	U, ARECIBO
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	WITHIN 20 DEGREES OF ZENITH
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	ARECIBO OBSERVATORY

U N C L A S S I F I E D

AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 03	POINT OF CONTACT IS SPECTRUM MGR
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 04	NSF, 703-292-4892
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	RADAR FOR IONOSPHERIC SCIENCE EXPERIMENTS ANTENNA IS A 1000 FT DIAMETER
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	SPHERICAL REFLECTER.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0829723
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	120905
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	120905
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 000090
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	100309
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 000090
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M2380
STC.	STATION CLASS	(STC) 01	LR
EMS.	EMISSION DESIGNATOR	(EMS) 01	20M00G9W
PWR.	TRANSMITTER POWER	(PWR) 01	M1
STC.	STATION CLASS	(STC) 02	LR
EMS.	EMISSION DESIGNATOR	(EMS) 02	20M00P0N
PWR.	TRANSMITTER POWER	(PWR) 02	K30
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664510W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	496
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	150
XAG.	TX ANTENNA GAIN	(XAG) 01	76
XAT.	TX ANTENNA NAME	(XAT) 01	SPHRCLFLCT
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	T
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	T
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C, CON719A
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664510W
RSE.	RX ANTENNA ELEVATION	(RSE) 01	496
RRC.	RX CONTROL	(RRC) 01	ARECIBO
RAG.	RX ANTENNA GAIN	(RAG) 01	76
RAT.	RX ANTENNA NAME	(RAT) 01	SPHRCLFLCT

U N C L A S S I F I E D

RAH.	RX ANTENNA FEED POINT HEIGHT	(RAH) 01	150
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	T
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	T
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	C, CON719A
NOT.	NOTES FREE-TEXT COMMENTS	(NOT) 01	M002, IRAC, 28393
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	WITHIN 20 DEGREES OF ZENITH
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	CORNELL UNIV
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 03	POINT OF CONTACT IS SPECTRUM MGR
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 04	ARECIBO, OBS, PH 809-878-2612
RTN.	ROUTINE AGENDA ITEM	(RTN) 01	R
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	RADAR FOR OF OBJECTS BEYOND DISTANCE OF MOON, BROADEST EMISSION
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	CONTINUOUS WAVE, PHASE MODULATION, PSEUDO-RANDOM WITH REVERSALS
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	PERMITTING PULSES WIDTHS DOWN TO 1 MS. NO DATA TRANSMITTED. NO PHASE
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	MODULATION, RADAR. FORMER NSF 910004 INADVERTENTLY EXPIRED SEPTEMBER
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	11,2000. AFTRCC COORD NOT REQUIRED BECAUSE OUTSIDE CONUS
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0614204
AUS.	IRAC DOCKET NUMBER	(AUS) 02	I9835578
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	020731
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	100308
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 041003
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	121205
CLA.	CLASSIFICATION	(CLA) 01	U
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M9375
STC.	STATION CLASS	(STC) 01	LR
EMS.	EMISSION DESIGNATOR	(EMS) 01	4M00PON
PWR.	TRANSMITTER POWER	(PWR) 01	K40
XSC.	TX STATE/COUNTRY	(XSC) 01	PR
XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	335
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	6
XRC.	TX STATION CONTROL	(XRC) 01	NAICAO
XAG.	TX ANTENNA GAIN	(XAG) 01	35
XAT.	TX ANTENNA NAME	(XAT) 01	PARABOLIC

U N C L A S S I F I E D

XAP.	TX ANTENNA POLARIZATION	(XAP) 01	H
PRR.	PULSE REPETITION RATE	(PRR) 01	1K
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C, SPR MODEL MK II
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RAG.	RX ANTENNA GAIN	(RAG) 01	35
RAT.	RX ANTENNA NAME	(RAT) 01	PARABOLIC
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	H
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	C, SPR MODEL MK III
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	CORNELL UNIVERSITY
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	ARECIBO, OBSER, PH 1-787-878-2612X352
RTN.	ROUTINE AGENDA ITEM	(RTN) 01	R
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	ARECIBO OBSERVATORY, PR, TO BE USED FOR AIRCRAFT SURVEILLANCE, LASER
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	EMMISSION WITHIN 45 DEGS OF VERTICAL SUP03 DIRECTION RADAR IS USED WHILE
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	LASER OR LIDAR IS OPERATIONAL TO DETECT AIRCRAFT ENTERING OBSERVATORY
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	AIRSPACE. THE RADAR SHUTS DOWN THE LIDAR WHILE AN AIRCRAFT PASSES BY.
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	SYSTEM HAS BEEN OPERATIONAL SINCE MARCH 1990
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0876836
AUS.	IRAC DOCKET NUMBER	(AUS) 02	J0155105
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	041004
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	121204
SER.	AGENCY SERIAL NUMBER	(SER) 01	NSF 140001
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	140211
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	NSF 140001
BUR.	BUREAU	(BUR) 01	NAIC
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M9410
STC.	STATION CLASS	(STC) 01	LR
EMS.	EMISSION DESIGNATOR	(EMS) 01	4M00P0N
PWR.	TRANSMITTER POWER	(PWR) 01	K40
STC.	STATION CLASS	(STC) 02	LR
EMS.	EMISSION DESIGNATOR	(EMS) 02	4M00P0N
PWR.	TRANSMITTER POWER	(PWR) 02	K3
XSC.	TX STATE/COUNTRY	(XSC) 01	PR

U N C L A S S I F I E D

XAL.	TX ANTENNA LOCATION	(XAL) 01	ARECIBO
XLA.	TX ANTENNA LATITUDE	(XLA) 01	182046N
XLG.	TX ANTENNA LONGITUDE	(XLG) 01	0664511W
XSE.	TX ANTENNA ELEVATION	(XSE) 01	335
XAH.	TX ANTENNA FEED POINT HEIGHT	(XAH) 01	6
XRC.	TX STATION CONTROL	(XRC) 01	NAICAO
XAG.	TX ANTENNA GAIN	(XAG) 01	35
XAT.	TX ANTENNA NAME	(XAT) 01	SLOTTDWVGD
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	R
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	H
PRR.	PULSE REPETITION RATE	(PRR) 01	2.1K
PRR.	PULSE REPETITION RATE	(PRR) 02	1.2K
PRR.	PULSE REPETITION RATE	(PRR) 03	600
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C,FUR 1761
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182046N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RAG.	RX ANTENNA GAIN	(RAG) 01	35
RAT.	RX ANTENNA NAME	(RAT) 01	SLOTTDWVGD
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	H
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	C,FUR 1761
POC.	REQUESTOR DATA	(POC) 01	ANGEL VASQUEZ,7878782612,140107
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	ARECIBO,OBSER,PH 1-787-878-2612X352
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	ARECIBO OBSERVATORY, PR, TO BE USED FOR AIRCRAFT SURVEILLANCE, LASER
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	EMMISION WITHIN 45 DEGS OF VERTICAL SUP03 DIRECTION RADAR IS USED WHILE
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	LASER OR LIDAR IS OPERATIONAL TO DETECT AIRCRAFT ENTERING OBSERVATORY
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	AIRSPACE. THE RADAR SHUTS DOWN THE LIDAR WHILE AN AIRCRAFT PASSES BY.
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	SYSTEM HAS BEEN OPERATIONAL SINCE MARCH 1990
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0988409
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	140210
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	140210

U N C L A S S I F I E D

SER.	AGENCY SERIAL NUMBER	(SER) 01	NASA145524
TYP.	TYPE OF ACTION	(TYP) 01	N
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	140826
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	SFS 140373
EXD.	EXPIRATION DATE (YYMMDD)	(EXD) 01	141231
BUR.	BUREAU	(BUR) 01	GSFC
NTS.	IRAC NOTES	(NTS) 01	S745
NTS.	IRAC NOTES	(NTS) 02	S403
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M2217.5
STC.	STATION CLASS	(STC) 01	XT
EMS.	EMISSION DESIGNATOR	(EMS) 01	1M00G1D
PWR.	TRANSMITTER POWER	(PWR) 01	W2.1
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	SPCE
XAL.	TX ANTENNA LOCATION	(XAL) 01	DEEP SPACE
XRC.	TX STATION CONTROL	(XRC) 01	GSFC
XAG.	TX ANTENNA GAIN	(XAG) 01	7
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	EC
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	T
XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	U,NASA DESIGN
RSC.	RX STATE/COUNTRY	(RSC) 01	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	ARECIBO
RLA.	RX ANTENNA LATITUDE	(RLA) 01	182038N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0664511W
RSE.	RX ANTENNA ELEVATION	(RSE) 01	235
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RAG.	RX ANTENNA GAIN	(RAG) 01	73
RAH.	RX ANTENNA FEED POINT HEIGHT	(RAH) 01	2
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	V70
RAA.	EARTH STATION RECEIVER ANTENNA AZIMUTH	(RAA) 01	001-360
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	T
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	C,FUR 1761
SPD.	TX POWER DENSITY	(SPD) 01	-054
XBW.	TX ANTENNA HORIZONTAL BEAMWIDTH	(XBW) 01	20
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 01	.5
NOT.	NOTES FREE-TEXT COMMENTS	(NOT) 01	M015,IRAC 40910/1,SPS-20406/1
POC.	REQUESTOR DATA	(POC) 01	JOHN ZUZEK,2164333469,140331
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	LAUNCH DATE 12/08/1978
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	HELIOCENTRIC ORBIT
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	SUPPORTS MANEUVERING THE INTERNATIONAL COMETARY EXPLORER

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SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	(ICE,A.K.A.,ISEE-3) TO AVOID A POSSIBLE LUNAR CRASH AND PLACE THE
SUP.	SUPPLEMENTARY DETAILS	(SUP) 03	SPACECRAFT IN L1 ORBIT. NASA/GSFC EXPERIMENTAL ASSIGNMENT. ALL TRANSMIT
SUP.	SUPPLEMENTARY DETAILS	(SUP) 04	OPERATIONS ARE ON A SECONDARY, NON-INTERFERENCE BASIS. NASA/GSFC STOP
SUP.	SUPPLEMENTARY DETAILS	(SUP) 05	BUZZER V SCOTT GALBRAITH, (240) 472-6429. REQUIREMENT/ACCURACY VERIFIED
SUP.	SUPPLEMENTARY DETAILS	(SUP) 06	BY V GALBRAITH. SPACECRAFT WAS LAUNCHED IN 1978, S354 DOES NOT APPLY. IF
SUP.	SUPPLEMENTARY DETAILS	(SUP) 07	THE SPACECRAFT CAN BE PLACED IN A STABLE L1 ORBIT, OPERATIONAL
SUP.	SUPPLEMENTARY DETAILS	(SUP) 08	AUTHORIZATIONS WILL BE PURSUED. MOD TO CERT TO ADD ARECIBO HAS BEEN
SUP.	SUPPLEMENTARY DETAILS	(SUP) 09	SUBMITTED FOR SPS AGENDA.
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J1031844
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	140825
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	140825
SER.	AGENCY SERIAL NUMBER	(SER) 01	NASA000250
TYP.	TYPE OF ACTION	(TYP) 01	M
DAT.	DATE OF LAST TRANSACTION (YYMMDD)	(DAT) 01	131028
CLA.	CLASSIFICATION	(CLA) 01	U
ACN.	AGENCY ACTION NUMBER	(ACN) 01	SFS 130522
BUR.	BUREAU	(BUR) 01	GSFC
NTS.	IRAC NOTES	(NTS) 01	S799
NTS.	IRAC NOTES	(NTS) 02	S144
FRQ.	ASSIGNED FREQUENCY	(FRQ) 01	M2287.5
PRD.	PAIRED FREQUENCY	(PRD) 01	M2106.4000,NASA000251
PRD.	PAIRED FREQUENCY	(PRD) 02	M2106.4000,NASA080031
STC.	STATION CLASS	(STC) 01	EH
EMS.	EMISSION DESIGNATOR	(EMS) 01	4M50G1D
PWR.	TRANSMITTER POWER	(PWR) 01	W5
STC.	STATION CLASS	(STC) 02	ET
EMS.	EMISSION DESIGNATOR	(EMS) 02	6M00G1D
PWR.	TRANSMITTER POWER	(PWR) 02	W5
TME.	TIME	(TME) 01	3
XSC.	TX STATE/COUNTRY	(XSC) 01	SPCE
XAL.	TX ANTENNA LOCATION	(XAL) 01	NONGEOSTATIONARY
XRC.	TX STATION CONTROL	(XRC) 01	GSFC
XAG.	TX ANTENNA GAIN	(XAG) 01	5
XAZ.	TX ANTENNA ORIENTATION	(XAZ) 01	EC
XAP.	TX ANTENNA POLARIZATION	(XAP) 01	R

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XEQ.	TX EQUIPMENT NOMENCLATURE	(XEQ) 01	C,MOT TDRS TRANSPOND
RSC.	RX STATE/COUNTRY	(RSC) 01	SPCE
RSC.	RX STATE/COUNTRY	(RSC) 02	SPCE
RSC.	RX STATE/COUNTRY	(RSC) 03	SPCE
RSC.	RX STATE/COUNTRY	(RSC) 04	SPCE
RSC.	RX STATE/COUNTRY	(RSC) 05	HI
RSC.	RX STATE/COUNTRY	(RSC) 06	PR
RAL.	RX ANTENNA LOCATION	(RAL) 01	GEOSTATIONARY
RAL.	RX ANTENNA LOCATION	(RAL) 02	GEOSTATIONARY
RAL.	RX ANTENNA LOCATION	(RAL) 03	GEOSTATIONARY
RAL.	RX ANTENNA LOCATION	(RAL) 04	GEOSTATIONARY
RAL.	RX ANTENNA LOCATION	(RAL) 05	SOUTH POINT
RAL.	RX ANTENNA LOCATION	(RAL) 06	MAYAGUEZ
RLA.	RX ANTENNA LATITUDE	(RLA) 01	000000N
RLG.	RX ANTENNA LONGITUDE	(RLG) 01	0410000W
RLA.	RX ANTENNA LATITUDE	(RLA) 02	000000N
RLG.	RX ANTENNA LONGITUDE	(RLG) 02	0460000W
RLA.	RX ANTENNA LATITUDE	(RLA) 03	000000N
RLG.	RX ANTENNA LONGITUDE	(RLG) 03	1710000W
RLA.	RX ANTENNA LATITUDE	(RLA) 04	000000N
RLG.	RX ANTENNA LONGITUDE	(RLG) 04	1740000W
RLA.	RX ANTENNA LATITUDE	(RLA) 05	190048N
RLG.	RX ANTENNA LONGITUDE	(RLG) 05	1553947W
RLA.	RX ANTENNA LATITUDE	(RLA) 06	181242N
RLG.	RX ANTENNA LONGITUDE	(RLG) 06	0670813W
RSE.	RX ANTENNA ELEVATION	(RSE) 05	355
RSE.	RX ANTENNA ELEVATION	(RSE) 06	33
RRC.	RX CONTROL	(RRC) 01	I,NTIA-U
RRC.	RX CONTROL	(RRC) 02	I,NTIA-U
RRC.	RX CONTROL	(RRC) 03	I,NTIA-U
RRC.	RX CONTROL	(RRC) 04	I,NTIA-U
RRC.	RX CONTROL	(RRC) 05	I,NTIA-U
RRC.	RX CONTROL	(RRC) 06	I,NTIA-U
RAG.	RX ANTENNA GAIN	(RAG) 01	36
RAG.	RX ANTENNA GAIN	(RAG) 02	36
RAG.	RX ANTENNA GAIN	(RAG) 03	36
RAG.	RX ANTENNA GAIN	(RAG) 04	36
RAG.	RX ANTENNA GAIN	(RAG) 05	47
RAG.	RX ANTENNA GAIN	(RAG) 06	38
RAH.	RX ANTENNA FEED POINT HEIGHT	(RAH) 05	15
RAH.	RX ANTENNA FEED POINT HEIGHT	(RAH) 06	15
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 01	NB

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RAZ.	RX ANTENNA ORIENTATION	(RAZ) 02	NB
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 03	NB
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 04	NB
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 05	V05
RAA.	EARTH STATION RECEIVER ANTENNA AZIMUTH	(RAA) 05	001-360
RAZ.	RX ANTENNA ORIENTATION	(RAZ) 06	V05
RAA.	EARTH STATION RECEIVER ANTENNA AZIMUTH	(RAA) 06	001-360
RAP.	RX ANTENNA POLARIZATION	(RAP) 01	S
RAP.	RX ANTENNA POLARIZATION	(RAP) 02	S
RAP.	RX ANTENNA POLARIZATION	(RAP) 03	S
RAP.	RX ANTENNA POLARIZATION	(RAP) 04	S
RAP.	RX ANTENNA POLARIZATION	(RAP) 05	S
RAP.	RX ANTENNA POLARIZATION	(RAP) 06	S
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 01	C,TRW TNSPNDR
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 02	C,TRW TNSPNDR
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 03	C,TRW TNSPNDR
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 04	C,TRW TNSPNDR
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 05	C,MDC MR-700
REQ.	RX EQUIPMENT NOMENCLATURE	(REQ) 06	C,MDC MR-1400
SPD.	TX POWER DENSITY	(SPD) 01	-061
XBW.	TX ANTENNA HORIZONTAL BEAMWIDTH	(XBW) 01	140
XIN.	TX EQUATORIAL INCLINATION ANGLE	(XIN) 01	22
XAE.	TX APOGEE	(XAE) 01	600
XPE.	TX PERIGEE	(XPE) 01	600
XPD.	TX PERIOD OF ORBIT	(XPD) 01	1.5H
XNR.	TX NUMBER OF SATELLITES	(XNR) 01	1
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 01	2.1
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 02	2.1
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 03	2.1
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 04	2.1
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 05	.57
RBW.	RX ANTENNA HORIZONTAL BEAMWIDTH	(RBW) 06	1.45
NOT.	NOTES FREE-TEXT COMMENTS	(NOT) 01	M015,IRAC-33158/1,SPS-13870/1
POC.	REQUESTOR DATA	(POC) 01	JOHN ZUZEK,2164333469,130810
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 01	LAUNCH DATE 11/20/2004
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 02	M015,IRAC-30976/1,COORD CONTOUR
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 03	M015,IRAC-30710/1,COORD CONTOUR
AGN.	AGENCY FREE-TEXT COMMENTS	(AGN) 04	R05,R06 SECONDARY RX SITE
SUP.	SUPPLEMENTARY DETAILS	(SUP) 01	SUPPORTS DATA DOWNLINK FOR NASA SWIFT GAMMA RAY MEDIUM CLASS EXPLORER
SUP.	SUPPLEMENTARY DETAILS	(SUP) 02	(MIDEX) .
AUS.	IRAC DOCKET NUMBER	(AUS) 01	J0961464

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AUS.	IRAC DOCKET NUMBER	(AUS) 02	I9825239
AUS.	IRAC DOCKET NUMBER	(AUS) 03	J0479387
AUS.	IRAC DOCKET NUMBER	(AUS) 04	J0064020
AUD.	AUTHORIZATION DATE (YYMMDD)	(AUD) 01	001025
RVD.	REVISION DATE (YYMMDD)	(RVD) 01	131025