

E. NASA Licensing Procedure (one spacecraft at a time)

All through the National Telecommunications and Information Agency (NTIA).

Started by the center Frequency Manager (at GSFC, Deskevitch), working with the Agency frequency manager (Schuett at LeRC).

First, review through the Spectrum Planning Subcommittee (SPS):

Stage 1 (Conceptual):	Initial planning completed, including proposed frequency bands.
Stage 2 (Experimental):	PDR completed, some breadboard models if needed.
Stage 3 (Developmental):	CDR completed, radiation testing may be required during testing.
Stage 4 (Operational):	Development essentially completed, final operating constraints/restrictions need to be identified.

When completed, forward to the Interdepartmental Radio Advisory Committee (IRAC) for approval

Then, licensing process starts:

This is a formality,

but,

limits may still be imposed by the Frequency Assignment Subcommittee (FAS).

F. Instrument and Spacecraft Glossary (Part 1 of 2)

Acronym/ Abbreviation	Name/Title	MISSION	COUNTRY
ADEOS	Advanced Earth Observation Satellite(s)		JAPAN
ALT	Altimeter	TOPEX/ POSEIDON	USA/ FRANCE
ALOS	Advanced Land Observing Satellite		JAPAN
AMI	Active Microwave Instrument	ERS-1, -2	ESA
AMR	Altimetry Microwave Radiometer	JASON-1	USA
AMSR	Advanced Microwave Scanning Radiometer	ADEOS-2	JAPAN
AMSR-E	Advanced Microwave Scanning Radiometer-E	EOS-PM	JAPAN
AMSU	Advanced Microwave Sounding Unit	EOS-PM	USA
AMSU-A	Advanced Microwave Sounding Unit - A	NOAA K+ METOP1	USA ESA
AMSU-B	Advanced Microwave Sounding Unit - B	NOAA-K+	USA
ASAR	Advanced Synthetic Aperture Radar	ENVISAT	ESA
ASCAT	Advanced Scatterometer	METOP	ESA
ATSR, -2	Along Track Scanning Radiometer (and Microwave Sounder)	ERS-1, -2	ESA
CLOUD RADAR	Cloud radar	FUTURE	ESA
CSR	Commonwealth of Soviet Republics		
DELTA-2		OKEAN	CSR
DORIS	Doppler Orbitography and Radio Positioning Integrated by Satellite	TOPEX/ POSEIDON	USA/ FRANCE
ENVISAT	Environmental Satellite		ESA
EOS	Earth Observing System (-AM, morning equator crossing; -PM afternoon crossing; -CHEM afternoon crossing)		USA
ERS	Earth Resource Satellite(s)		ESA
ESA	European Space Agency		
ETM	Enhanced Thematic Mapper	LANDSAT	USA
IKAR		PRIRODA	CSR
JERS	Japanese Earth Resources Satellite		JAPAN
MASTER		FUTURE	ESA
MHS	Microwave Humidity Sounder	EOS-PM NOAA-N METOP	USA USA ESA
MIMR	Multifrequency Imaging Microwave Radiometer	METOP	ESA
MIRAS	Microwave Imaging Radiometer with Aperture Synthesis	MIRAS	ESA
MIVZA	(humidity sounder)	METEOR	CSR
MLS	Microwave Limb Sounder	UARS, EOS -CHEM	USA
MSR	Microwave Scanning Radiometer	MOS-1B	JAPAN
MSU	Microwave Sounding Unit	NOAA-9-14	USA

MTZA		METEOR	CSR
MWR	Microwave Radiometer	ENVISAT	ESA
MZOAS		METEOR	CSR

F. Instruments and Spacecraft Glossary (Part 2 of 2)

Acronym/ Abbreviation	Name/Title	MISSION	COUNTRY
NASA	National Aeronautics and Space Administration		USA
NOAA	National Oceans and Atmospheres Administration		USA
NSCAT(US)	NASA Scatterometer	ADEOS	JAPAN
PR	Precipitation Radar	TRMM	JAPAN
R-225	2.25 cm radiometer (?)	OKEAN-O	CSR
R-400	4 cm radiometer (?)	PRIRODA	CSR
R-600	6 cm radiometer (?)	OKEAN-O	CSR
RA	Radar Altimeter	ERS-1,-2	ESA
RA-2	Radar Altimeter	ENVISAT	ESA
RADIOMTR	Radiometer	ODIN	SWEDEN
RLSBO	Imager	OKEAN-O, SICH-1	CSR
RM-0.8	0.8 cm imaging radiometer	SICH	CSR
SAR	Synthetic Aperture Radar	RADARSAT	CANADA
SAR	Synthetic Aperture Radar	JERS-1	JAPAN
SAR	Synthetic Aperture Radar	SICH	CSR
SAR-10	Synthetic Aperture Radar - 9.6 cm	ALMAZ	CSR
SAR-3	Synthetic Aperture Radar - 3.5 cm	ALMAZ	CSR
SAR-70	Synthetic Aperture Radar - 70 cm	ALMAZX	CSR
SIRC/XSAR	Shuttle Imaging Radar -C, X-Synthetic Aperture Radar	Shuttle	USA
SMR	Scanning Microwave Radiometer	SICH	CSR
SEAWINDS (USA)	Scatterometer	ADEOS-2	JAPAN
SLR-3	Side Looking Radar	ALMAZX	CSR
SOPRANO	Sub-millimeter Observation of Processes in the Absorption Noteworthy for Ozone	FUTURE	ESA
SSALT	Solid State Altimeter	TPX/POS, JASON	USA, FRANCE
TDRSS	Tracking and Data Relay Satellite System		USA
TMI (USA)	TRMM Microwave Imager	TRMM	JAPAN
TMR	TOPEX Microwave Radiometer	TPX/POS, JASON	USA, FRANCE
TPX/POS	TOPEX/POSEIDON		USA, FRANCE
TRMM	Tropical Rainfall Measurement Mission		USA, JAPAN
TRVRS SAR	Transverse-Synthetic Aperture Radar	PRIRODA	CSR
TT&C	Tracking, Telemetry, and Command		
UARS	Upper Atmosphere Research Satellite		USA
USA	United States of America		
VSAR	? Synthetic Aperture Radar	ALOS	JAPAN

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