

NATIONAL SECURITY SPACE ROAD MAP

(NSSRM)

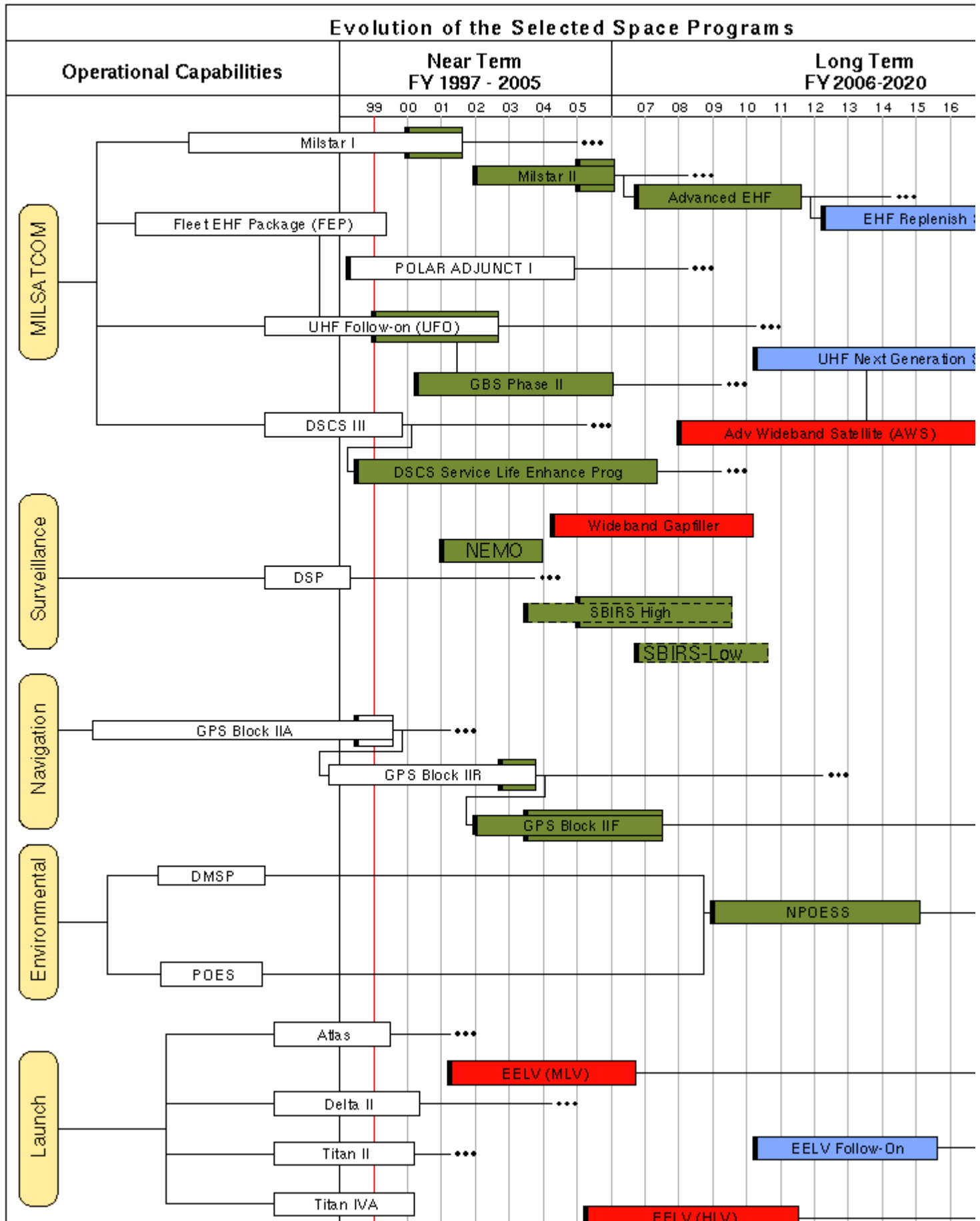
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SURVEILLANCE AND WARNING
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SPACE SURVEILLANCE
NMD/COUNTERSPACE
SPACE FORCES SUPPORT
FORCE APPLICATION
GENERAL SUPPORT
TECHNOLOGY RDT&E

Initiatives available in the IRM (U):

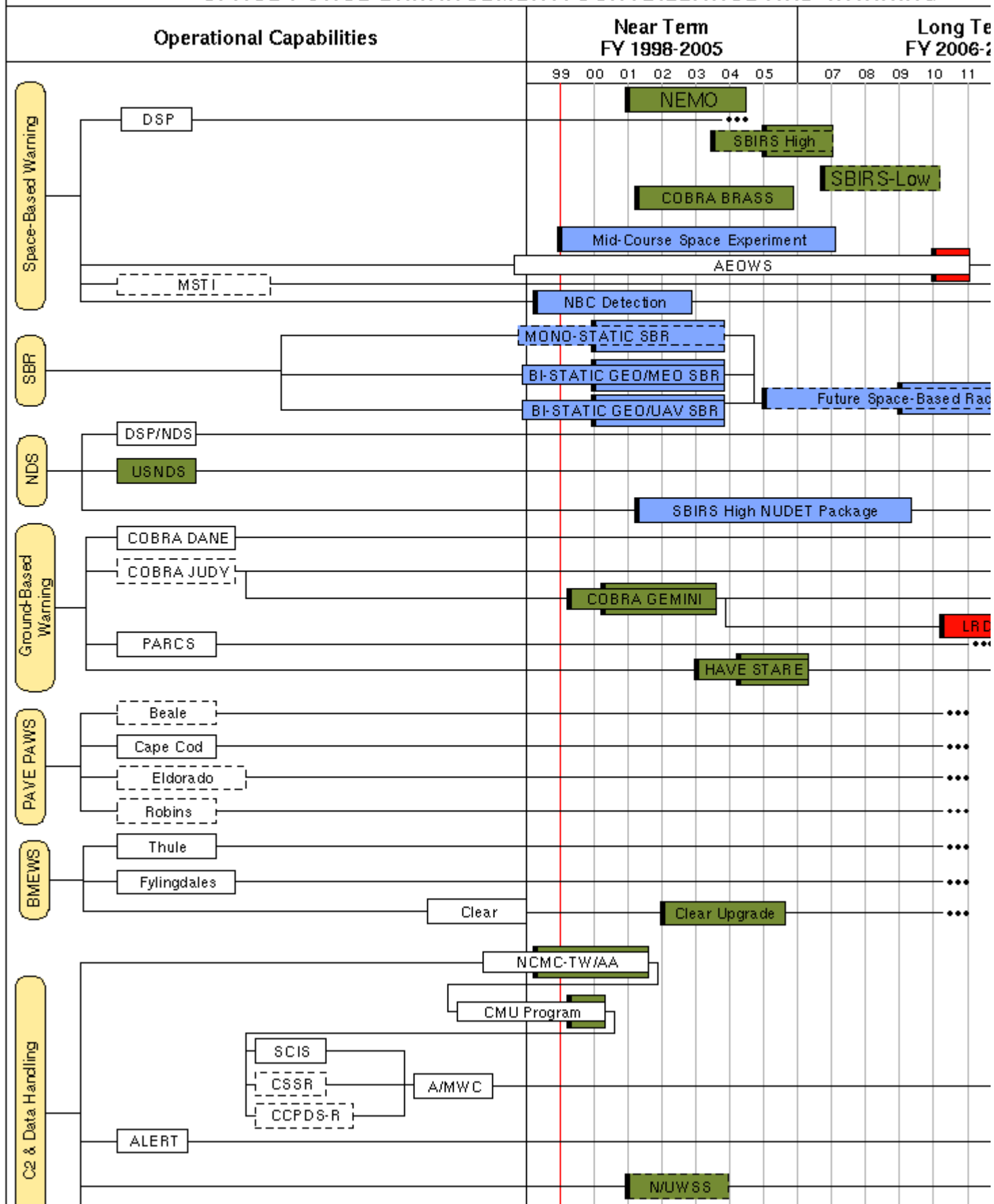
<http://www.wslfweb.org/docs/roadmap/irm/rmindex.htm>

Major DoD Space Programs Road Map



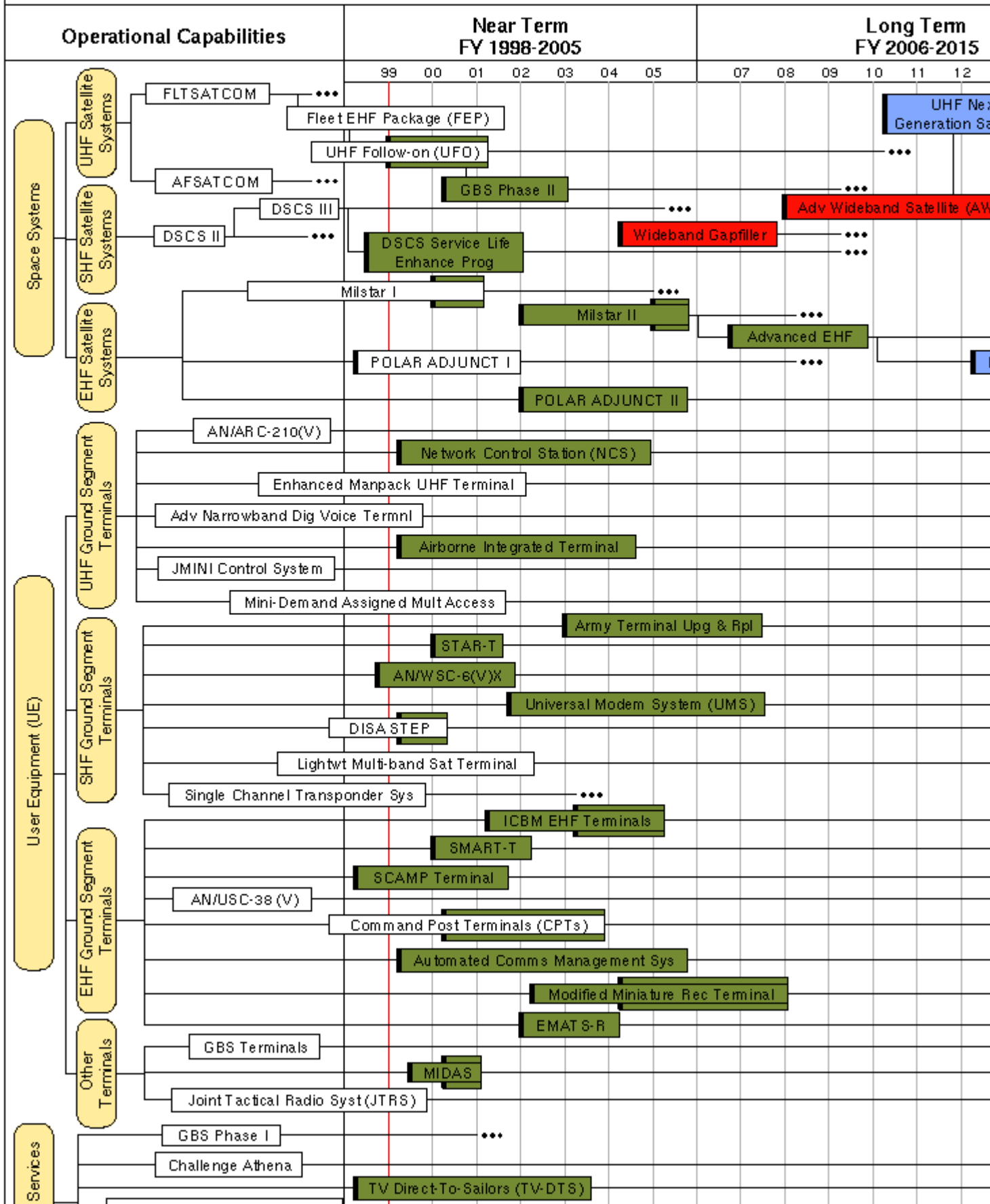
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SPACE FORCE ENHANCEMENT: SURVEILLANCE AND WARNING

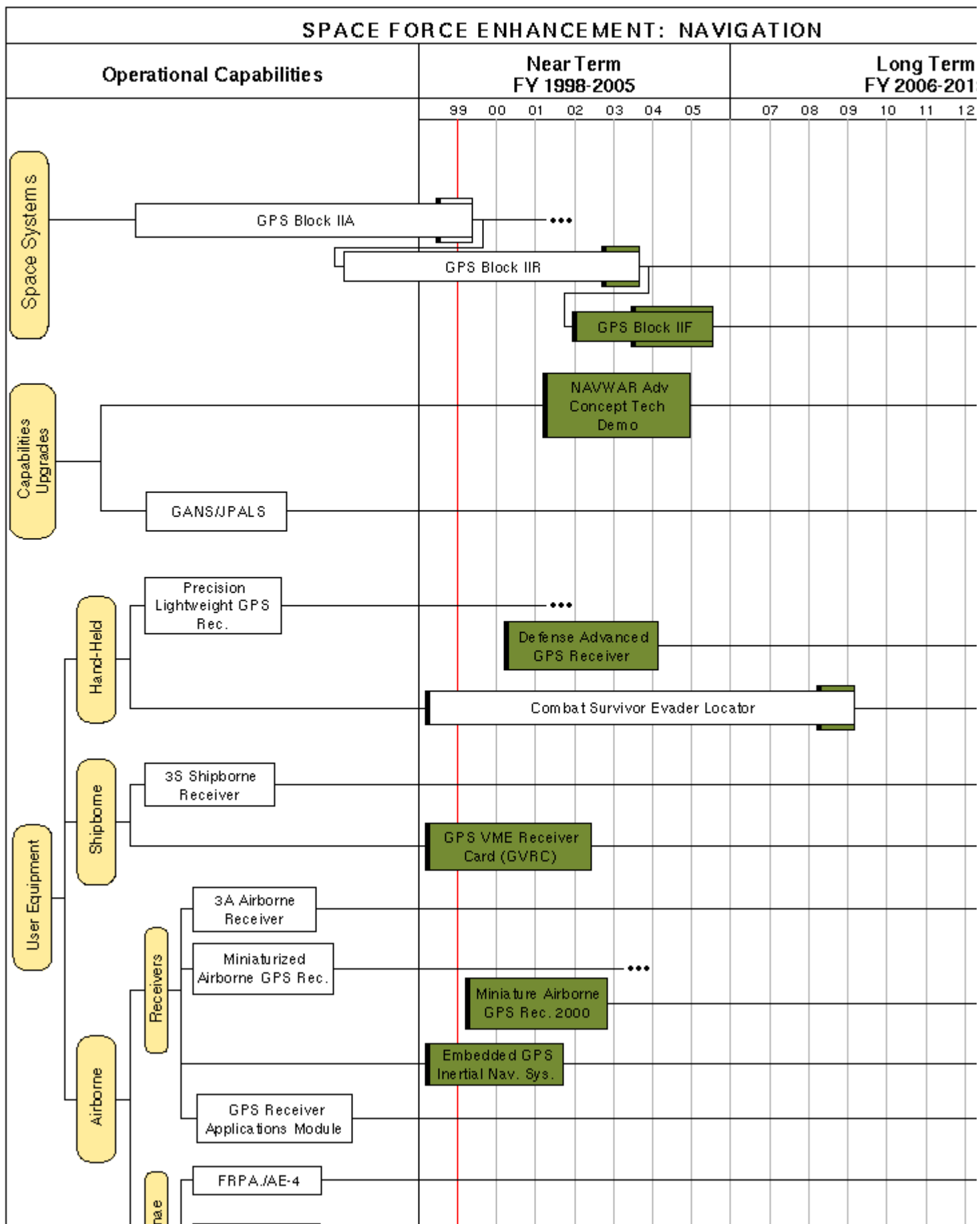


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SPACE FORCE ENHANCEMENT: MILSATCOM

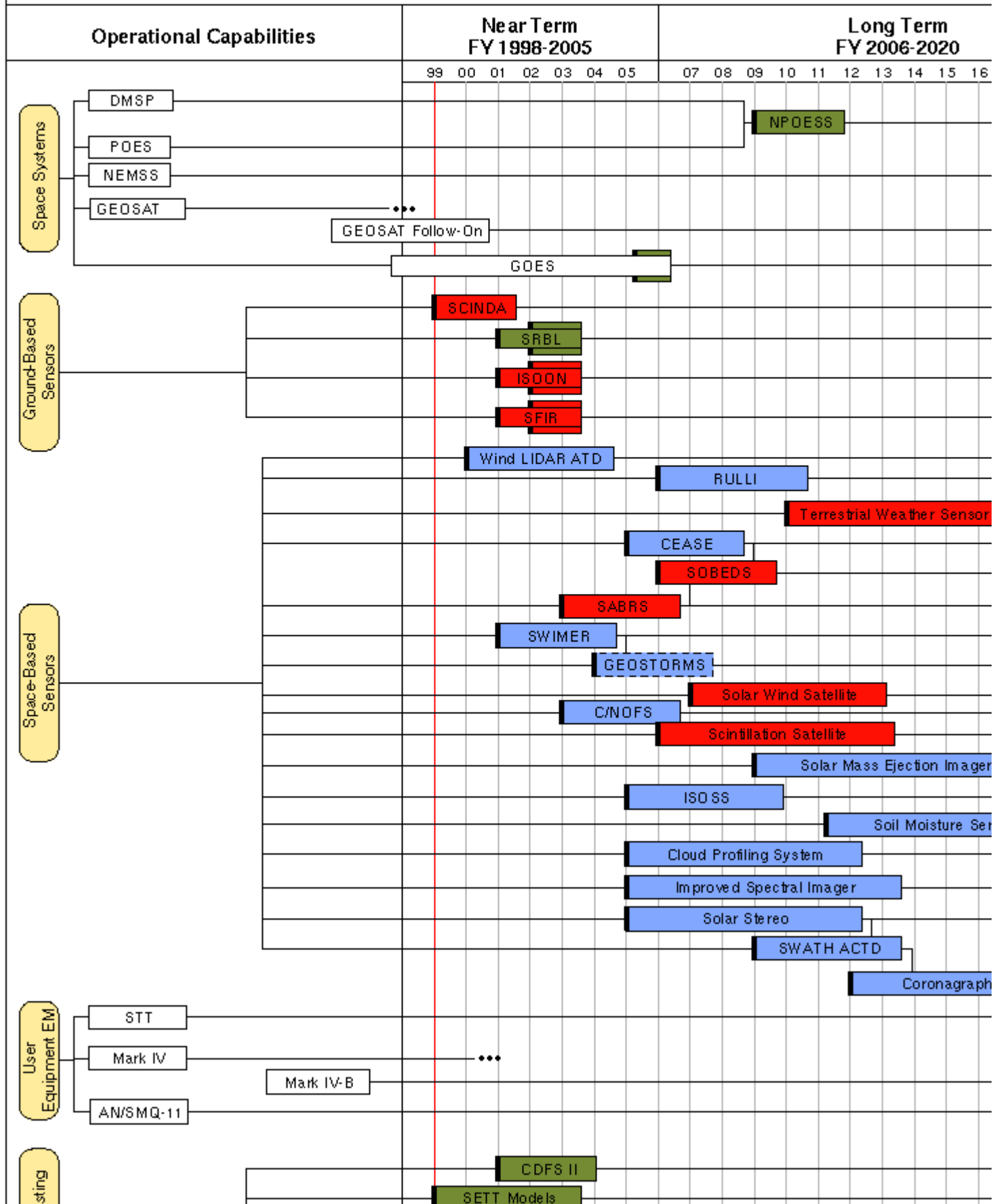


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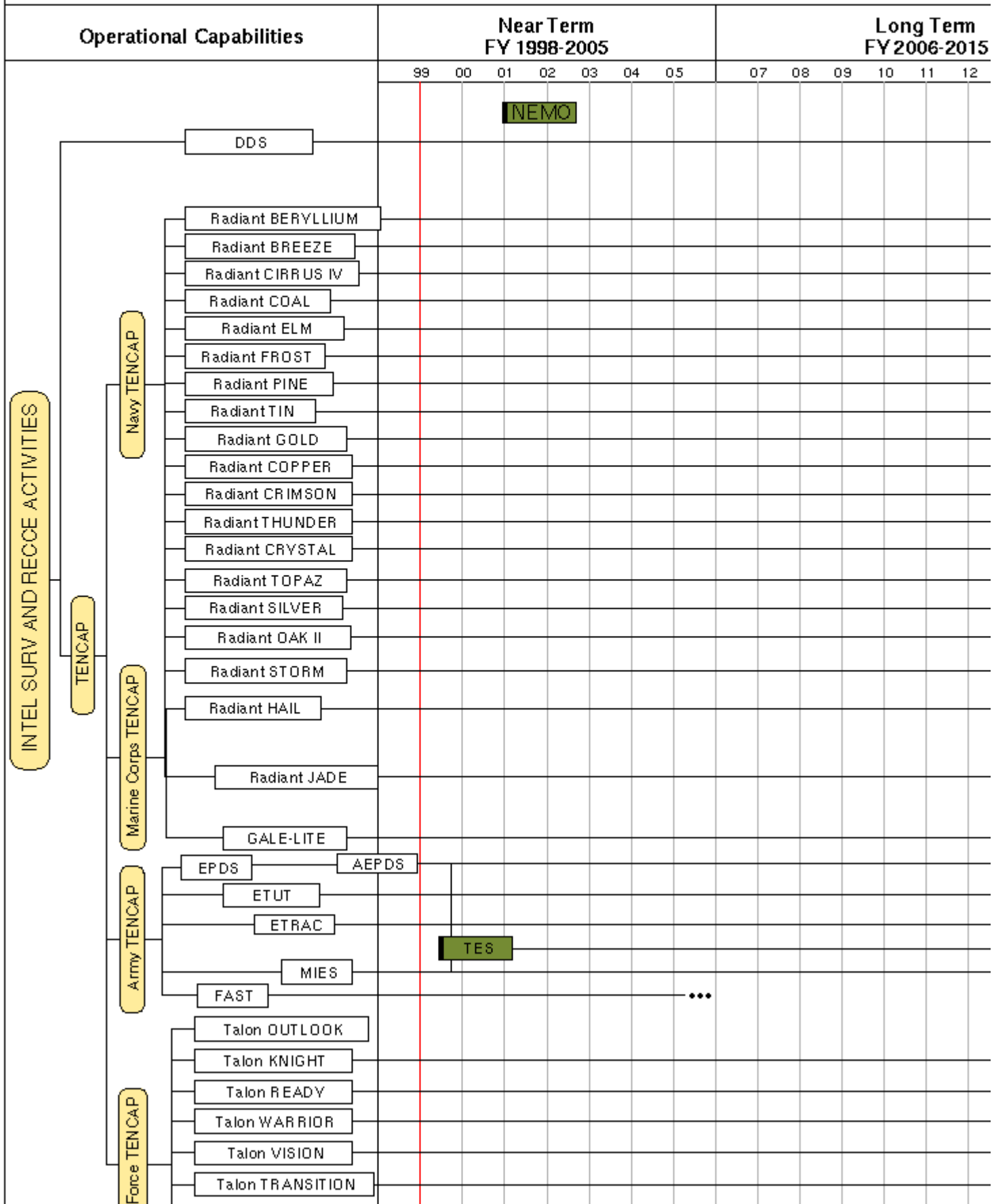
SPACE FORCE ENHANCEMENT: ENVIRONMENTAL MONITORING



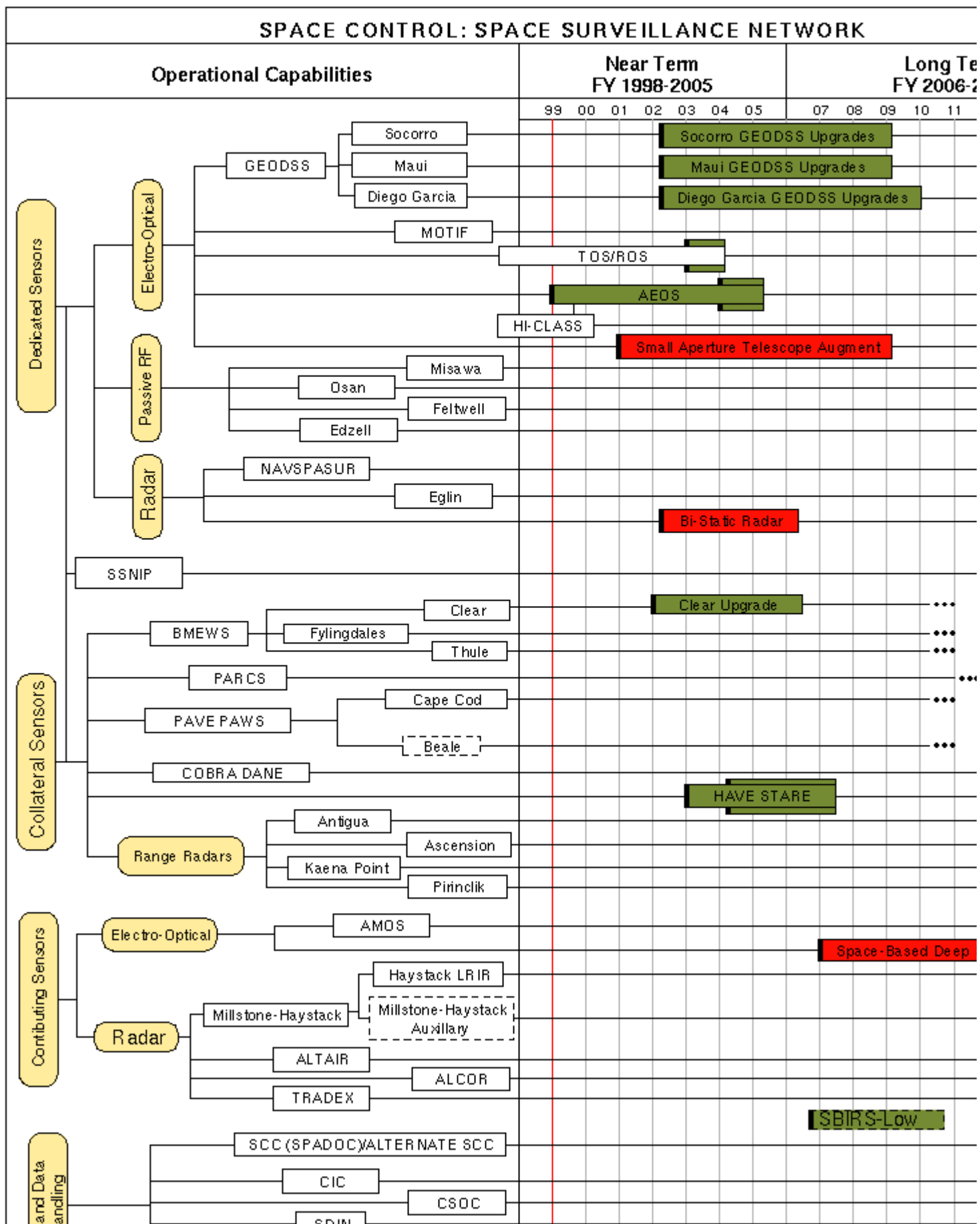
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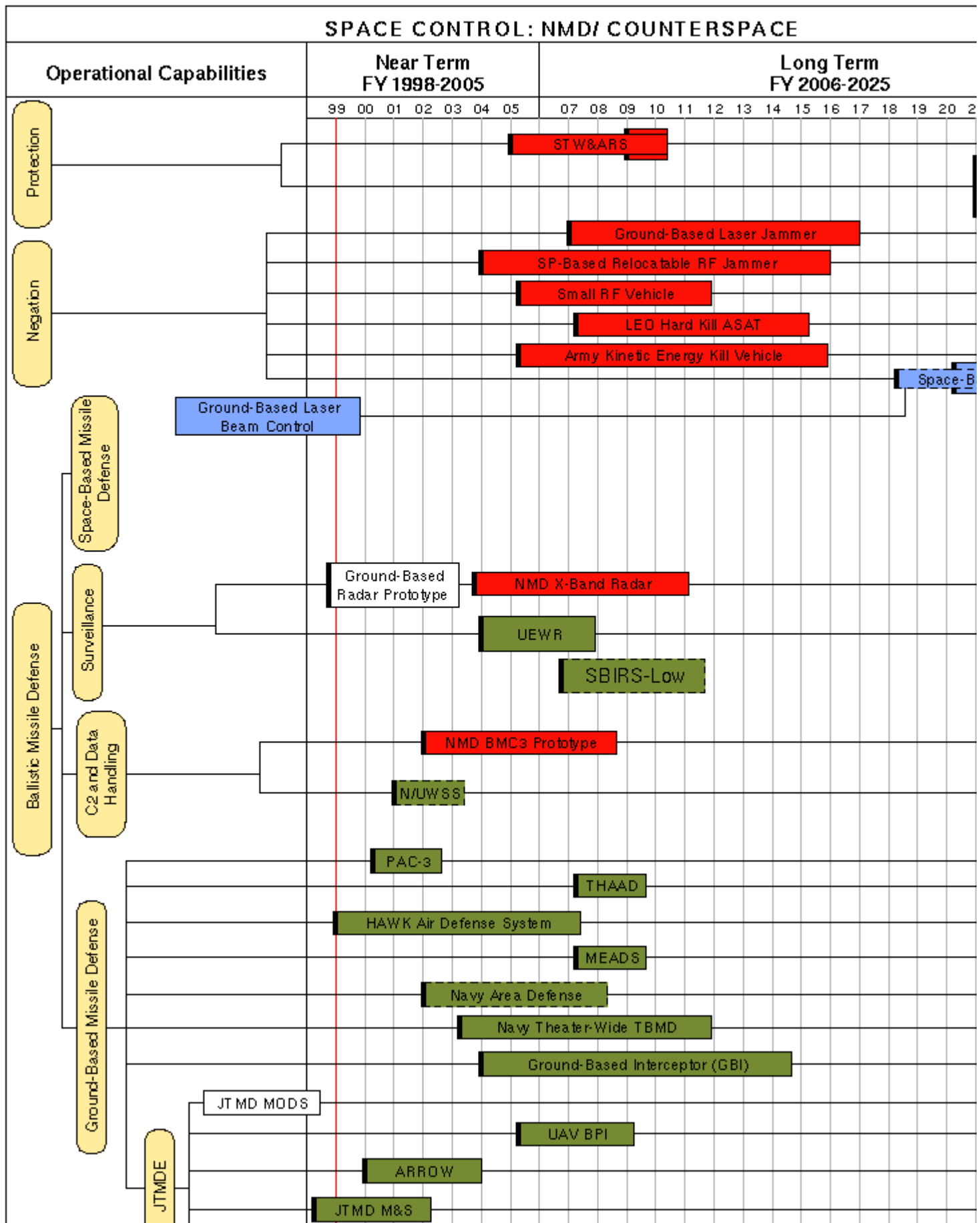
SPACE FORCE ENHANCEMENT: INTELLIGENCE SURVEILLANCE AND RECONNAI



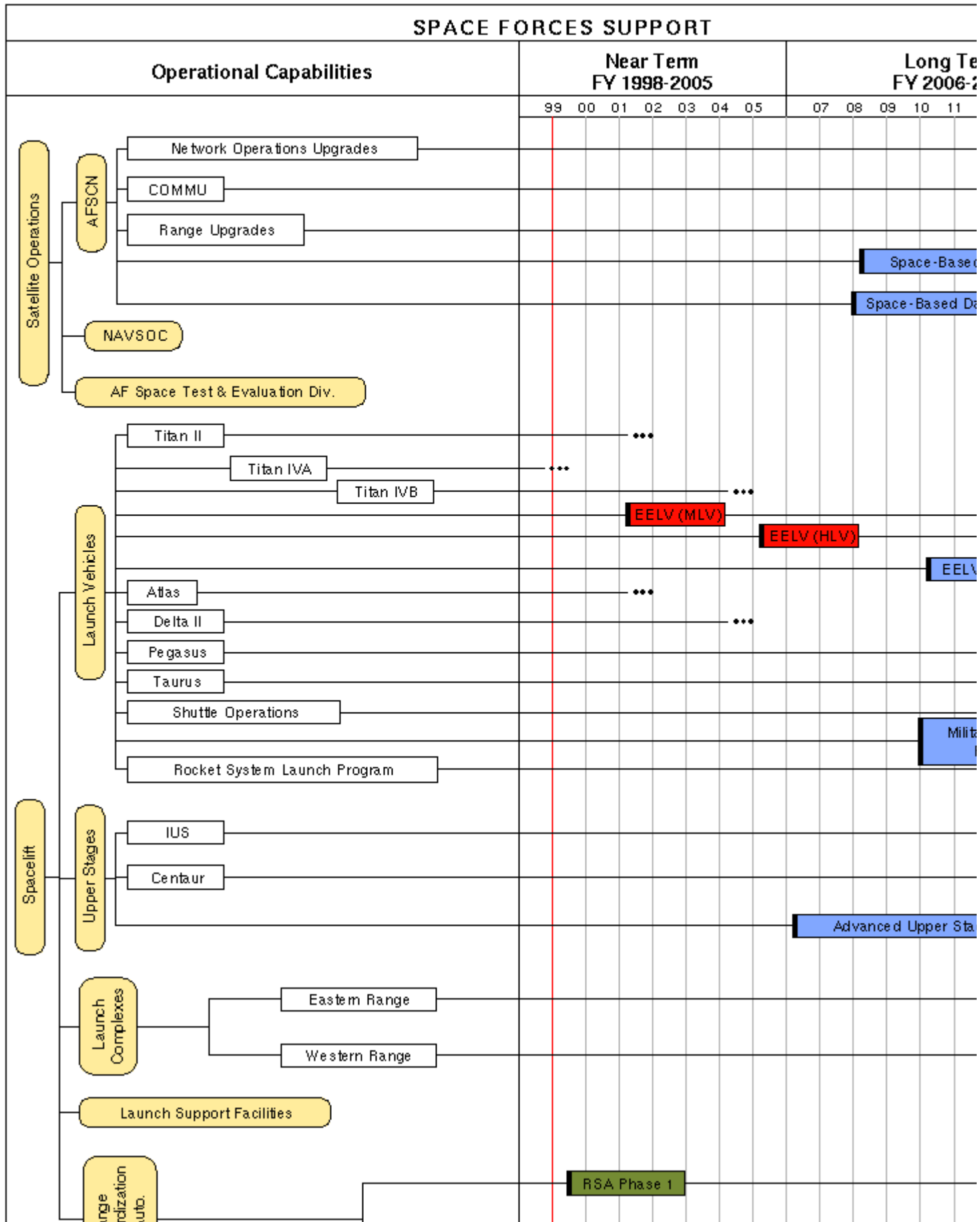
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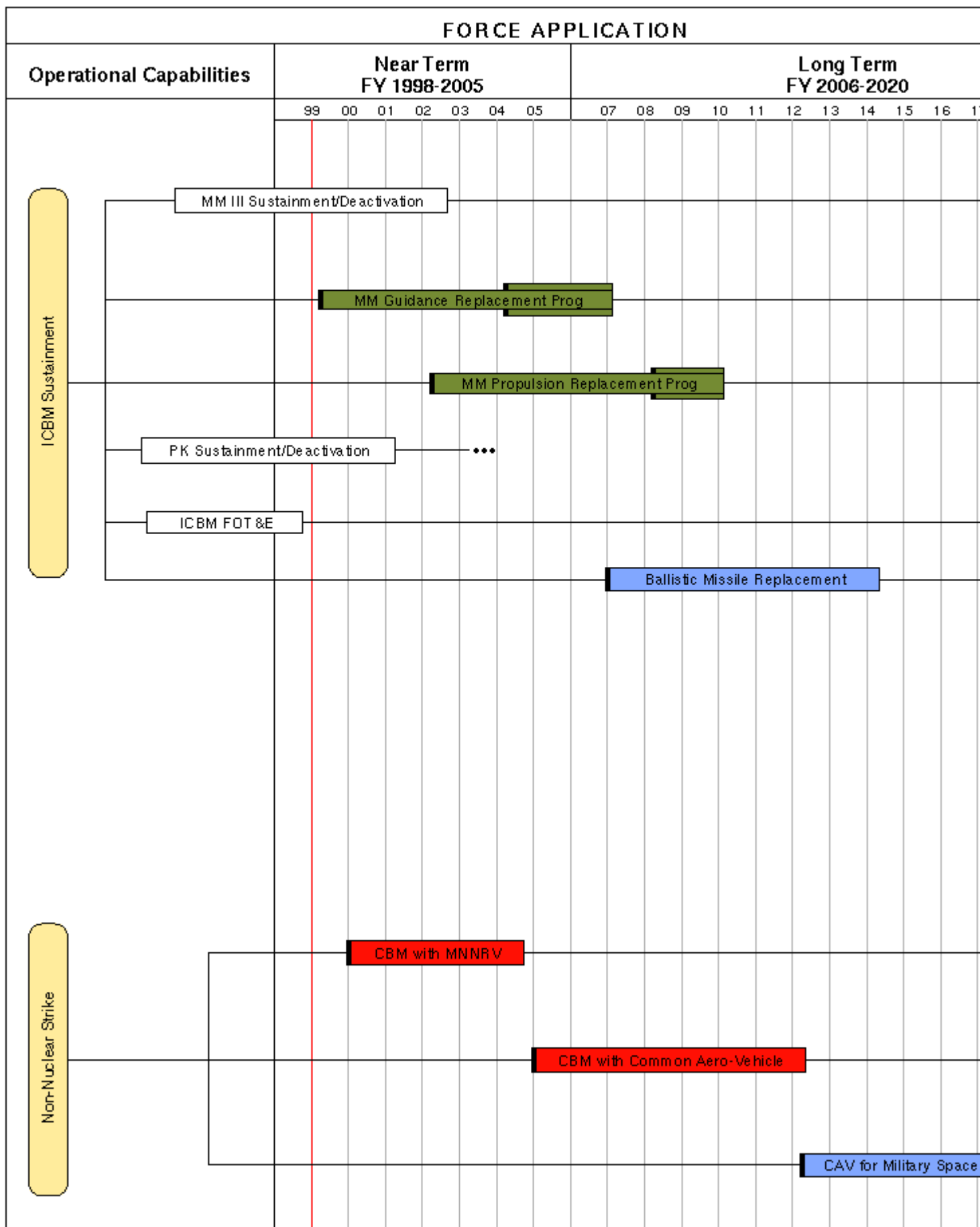
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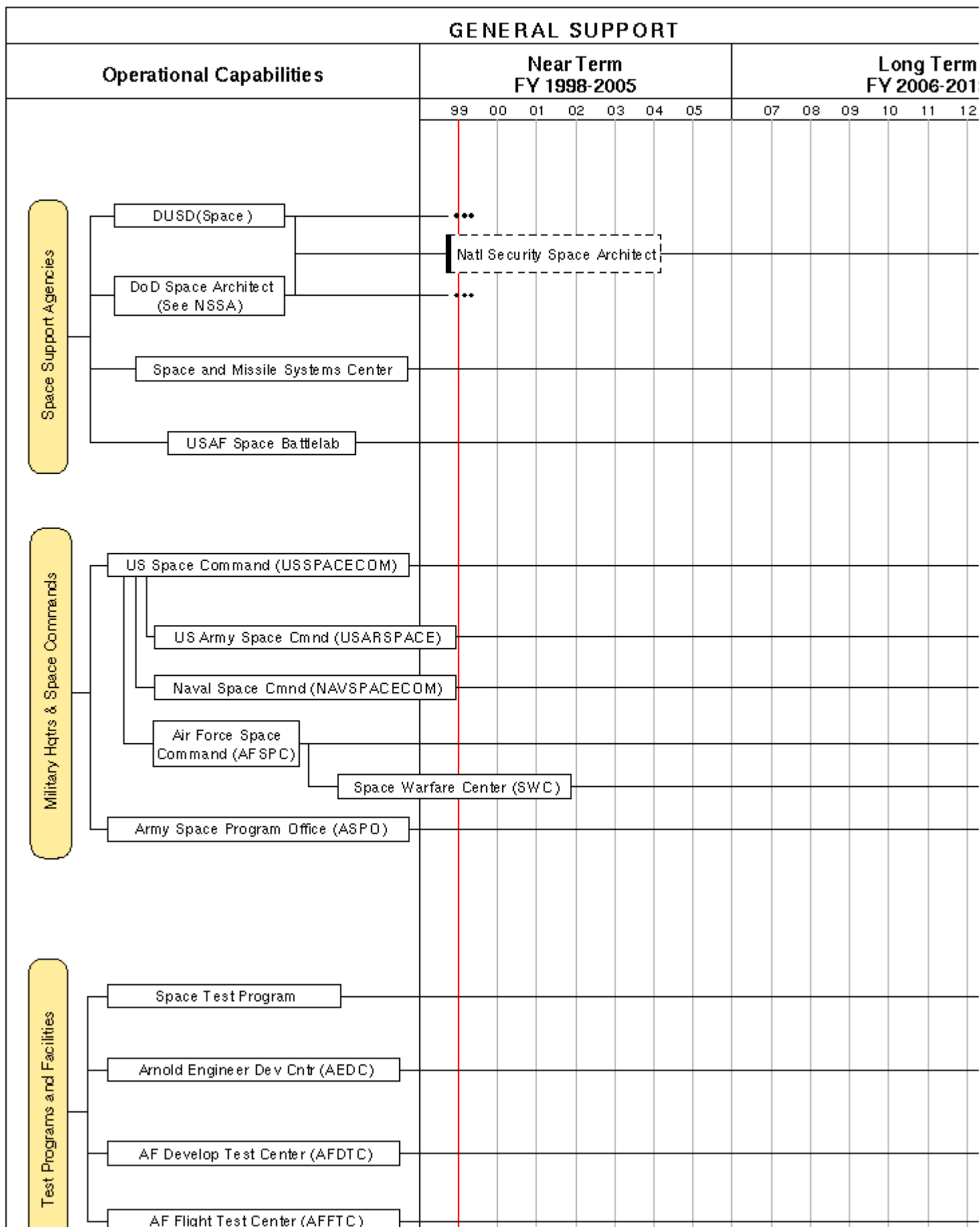
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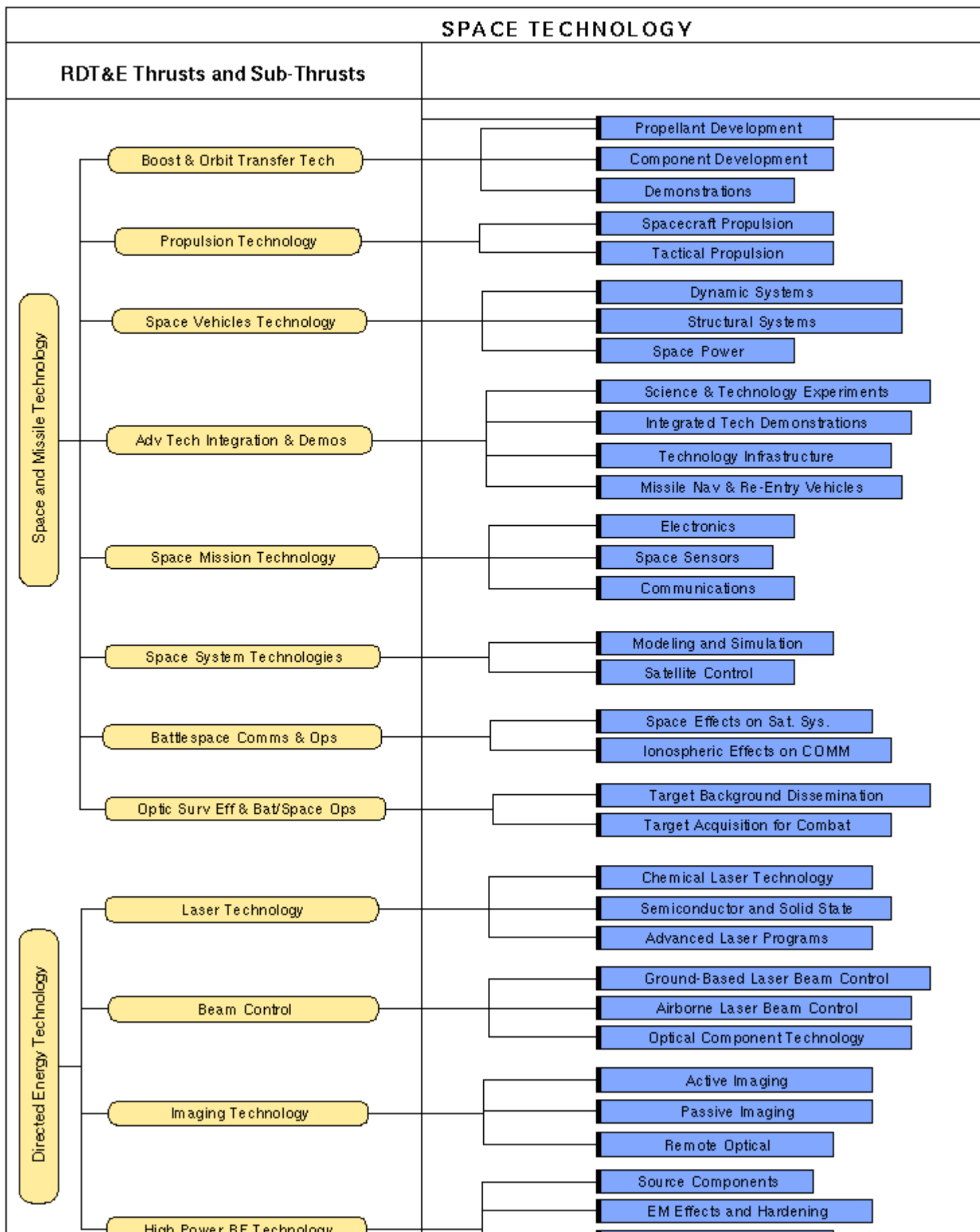
NATIONAL SECURITY SPACE ROAD MAP (NSSRM)



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NATIONAL SECURITY SPACE ROAD MAP (NSSRM)



Initiatives available in the IRM (U):

Name	Title
3A Airborne Receiver	3A Airborne Receiver
3S Shipborne Receiver	3S Shipborne Receiver
A/MWC	Alternate Missile Warning Center (A/MWC)
AEOS	Advanced Electro-Optical System (AEOS)
AEOWS	Advanced Electro-Optical Warning Sensor (AEOWS)
AEPDS	Advanced Electronic Processing and Dissemination System (AEPDS)
AF Develop Test Center (AFDTC)	Air Force Development Test Center (AFDTC)
AF Flight Test Center (AFFTC)	Air Force Flight Test Center (AFFTC)
AFSATCOM	Air Force Satellite Communications (AFSATCOM)
ALCOR	ALCOR (ARPA Lincoln C-band Observable Radar)
ALERT	Attack and Launch Early Report to Theater (ALERT)
ALTAIR	Advanced Research Project Agency (ARPA) Long-range Tracking and Identification Radar (ALTAIR)
AMOS	Air Force Maui Optical Station (AMOS)
AN/ARC-210(V)	AN/ARC-210(V)
AN/SMQ-11	AN/SMQ-11 Shipboard Receiving Terminal
AN/USC-38 (V)	AN/USC-38 (V)
AN/WSC-6(V)X	AN/WSC-6(V)X
ARROW	Israeli Cooperative Project (Arrow)
Active Imaging	Active Imaging
Active On-Board Protection	Active On-Board Protection
Adv Narrowband Dig Voice Termnl	Advanced Narrowband Digital Voice Terminal (ANDVT)
Adv Wideband Satellite (AWS)	Advanced Wideband Satellite (AWS)
Advanced EHF	Advanced Extremely High Frequency (EHF)
Advanced Laser Programs	Advanced Laser Programs
Advanced Upper Stage	Advanced Upper Stage
Air Force Space Command (AFSPC)	Air Force Space Command (AFSPC)
Airborne Integrated Terminal	Airborne Integrated Terminal (AIT)
Airborne Laser Beam Control	Airborne Laser Beam Control Technology
Antigua	Antigua
Army Kinetic Energy Kill Vehicle	Army Kinetic Energy Kill Vehicle
Army Space Program Office (ASPO)	Army Space Program Office (ASPO)
Army Terminal Upg & Rpl	Army Terminal Upgrade and Replacement
Arnold Engineer Dev Cntr (AEDC)	Arnold Engineering Development Center (AEDC)
Ascension	Ascension
Assessments and Survivability	Assessments and Survivability
Atlas	Atlas
Automated Comms Management Sys	Automated Communications Management System (ACMS)
BI-STATIC GEO/MEO SBR	Bi-static Geosynchronous/Medium Earth Orbit (GEO/MEO) Space-Based Radar (SBR)
BI-STATIC GEO/UAV SBR	Bi-static Geosynchronous/Unmanned Aerial Vehicle (GEO/UAV) Space-Based Radar (SBR)
BMEWS	Ballistic Missile Early Warning System (BMEWS)
Ballistic Missile Replacement	Ballistic Missile Replacement (BMR)

Beale	PAVE Phased Array Warning System (PAWS) at Beale
Bi-Static Radar	Bi-Static Radar
C/NOFS	Communications/Navigation Outage Forecasting System (C/NOFS)
CAV for Military Spaceplane	Common Aero-Vehicle (CAV) for Military Spaceplane (MSP)
CBM with Common Aero-Vehicle	Conventional Ballistic Missile (CBM) with Common Aero-Vehicle (CAV)
CBM with MNNRV	Conventional Ballistic Missile (CBM) with Maneuverable Non-Nuclear Reentry Vehicle (MNNRV)
CCPDS-R	Command Center Processing and Display System Replacement (CCPDS-R)
CDFS II	Cloud Depiction and Forecast System II (CDFS II)
CEASE	Compact Environment Anomaly Sensor (CEASE)
CIC	Combined Intelligence Center (CIC)
CMU Program	Cheyenne Mountain Upgrade (CMU) Program
COBRA BRASS	COBRA BRASS
COBRA DANE	COBRA DANE
COBRA GEMINI	COBRA GEMINI
COBRA JUDY	COBRA JUDY
COMMU	Communications Upgrades (COMMU)
CRPA/AE-1	Controlled Reception Pattern Antenna (CRPA/AE-1)
CSOC	Consolidated Space Operations Centers (CSOC)
CSSR	Communications Systems Segment Replacement (CSSR)
Cape Cod	PAVE PAWS (Phased Array Warning System) at Cape Cod
Centaur	Centaur
Challenge Athena	Challenge Athena
Chemical Laser Technology	Chemical Laser Technology
Clear	Ballistic Missile Early Warning System (BMEWS) at Clear
Clear Upgrade	Ballistic Missile Early Warning System (BMEWS) at Clear
Cloud Profiling System	Cloud Profiling System
Combat Survivor Evader Locator	Combat Survivor Evader Locator (CSEL)
Command Post Terminals (CPTs)	Command Post Terminals (CPTs)
Commercial Sat Comms Initiative	Commercial Satellite Communications Initiative (CSCI)
Communications	Communications
Component Development	Component Development
Coronagraph	Coronagraph
DDS	Defense Dissemination System (DDS)
DISA STEP	Defense Information Systems Agency (DISA) Standard Tactical Entry Point (STEP)
DMSP	Defense Meteorological Satellite Program (DMSP)
DSCS II	Defense Satellite Communications System (DSCS) II
DSCS III	Defense Satellite Communications System (DSCS) III
DSCS Service Life Enhance Prog	Defense Satellite Communications System (DSCS) Service Life Enhancement Program (SLEP)
DSP	Defense Support Program (DSP)
DSP/NDS	Defense Support Program(DSP)/Nuclear Detonation (NUDET) Detection System (NDS)
DUSD(Space)	Deputy Under-Secretary of Defense (DUSD) for Space
Defense Advanced GPS Receiver	Defense Advanced GPS Receiver (DAGR)
Delta II	Delta II
Demonstrations	Demonstrations
Diego Garcia	Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) at Diego Garcia
Diego Garcia GEODSS Upgrades	Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) Upgrades at Diego Garcia
DoD Space Architect (See NSSA)	DoD Space Architect

Dynamic Systems	Dynamic Systems
EELV (HLV)	Evolved Expendable Launch Vehicle (EELV) Heavy Lift Vehicle (HLV)
EELV (MLV)	Evolved Expendable Launch Vehicle (EELV) Medium Lift Vehicle (MLV)
EELV Follow-On	EELV Follow-On
EHF Replenish Sat	Extremely High Frequency (EHF) Replenishment Satellite
EM Effects and Hardening	Electromagnetic (EM) Effects and Hardening
EMATS-R	Emergency Message Automated Transmission System - Replacement (EMATS-R)
EPDS	Electronic Processing and Dissemination System (EPDS)
ETRAC	Enhanced Tactical Radar Correlator (ETRAC)
ETUT	Enhanced Tactical User Terminal (ETUT)
Eastern Range	Eastern Range
Edzell	Edzell
Eglin	Eglin
Eldorado	PAVE Phased Array Warning System (PAWS) at Eldorado Air Force Station (AFS)
Electronics	Electronics
Embedded GPS Inertial Nav. Sys.	Embedded Global Positioning System (GPS) Inertial (EGI) Navigation System
Enhanced Manpack UHF Terminal	Enhanced Manpack UHF Terminal (EMUT) (aka Spitfire)
FAST	Forward Area Support Terminal (FAST)
FLTSATCOM	Fleet Satellite Communications (FLTSATCOM)
FRPA/AE-4	Fixed Reception Pattern Antenna (FRPA)/Antenna Electronics (AE-4)
Feltwell	Feltwell
Fleet EHF Package (FEP)	Fleet EHF Package (FEP)
Forward-Based X-Band Radars	Forward-Based X-Band Radars
Future Space-Based Radar	Future Space Based Radar (SBR)
Fylingdales	Ballistic Missile Early Warning Radar System (BMEWS) at Fylingdales
GALE-LITE	Gale-Lite
GANS/JPALS	Global Access Navigation Safety/ Joint Precision Approach and Landing System (GANS/JPALS)
GAS-1 CRPA/AE	GAS-1 Controlled Reception Pattern Antenna (CRPA)/AE
GBS Phase I	Global Broadcast Service (GBS) Phase I
GBS Phase II	Global Broadcast Service (GBS) Phase II
GBS Terminals	Global Broadcast Service (GBS) Terminals
GEODSS	Ground-Based Electro-Optical Deep Space Surveillance System (GEODSS)
GEOSAT	Geodetic/Geophysical Satellite (GEOSAT)
GEOSAT Follow-On	Geodetic/Geo-Physical Satellite Follow-on (GFO)
GEOSTORMS	GEOSTORMS
GOES	Geostationary Operational Earth Satellite (GOES)
GPS BLOCK IIA	NAVSTAR Global Positioning System(GPS) BLOCK IIA
GPS BLOCK IIF	NAVSTAR Global Positioning System(GPS) BLOCK IIF
GPS BLOCK IIR	NAVSTAR Global Positioning System(GPS) BLOCK IIR
GPS Receiver Applications Module	Global Positioning System (GPS) Receiver Applications Module (GRAM)
GPS VME Receiver Card (GVRC)	GPS Versa Modula Eurocard (VME) Receiver Card (GVRC)
Ground-Based Interceptor (GBI)	Ground-Based Interceptor (GBI)
Ground-Based Laser Beam Control	Ground-Based Laser Beam Control Technology
Ground-Based Laser Jammer	Ground-Based Laser Jammer
Ground-Based Radar	Ground-Based Radar
Ground-Based Radar Prototype	Ground-Based Radar Prototype

HAVE STARE	HAVE STARE
HAWK Air Defense System	HAWK Air Defense System
HI-CLASS	High Performance CO2 Laser Radar (LADAR) (HI-CLASS)
Haystack LRIR	Haystack Long Range Imaging Radar (LRIR)
IBS	Integrated Broadcast System (IBS)
ICBM EHF Terminals	Intercontinental Ballistic Missile (ICBM) EHF Terminals
ICBM FOT&E	Intercontinental Ballistic Missile (ICBM) Follow-On Test and Evaluation (FOT&E)
ISOON	Improved Solar Observing Optical Network (ISOON)
ISOSS	Integrated Solar Observing Satellite System (ISOSS)
IUS	Inertial Upper Stage (IUS)
Improved Space Env. Models	Improved Space Environment Models
Improved Spectral Imager	Improved Spectral Imager
Integrated Tech Demonstrations	Integrated Technology Demonstrations
Ionospheric Effects on COMM	Ionospheric Effects on Communication/Navigation Systems
JMINT Control System	JMINT Control System
JTMD BM/C3I	Joint Theater Missile Defense (TMD) Battle Management/Command, Control, Communications and Intelligence (JTMD BM/C3I)
JTMD M&S	Joint Theater Missile Defense (TMD) Modeling and Simulation
JTMD MODS	Joint Theater Missile Defense (TMD) Existing Systems Modifications (JTMD MODS)
JTMD T&E	Joint Theater Missile Defense (TMD) Test and Evaluation (T&E) (JTMD T&E)
Joint Tactical Radio Syst (JTRS)	Joint Tactical Radio System (JTRS)
Kaena Point	Kaena Point
LEO Hard Kill ASAT	Low Earth Orbit (LEO) Hard Kill ASAT
LRDBTR	Long Range Dual Band Transportable Radar (LRDBTR)
Lightwt Multi-band Sat Terminal	Lightweight Multi-band Satellite Terminal (LMST)
MEADS	Medium Extended Air Defense System (MEADS)
MIDAS	Multiplexer Integration and DCSS (Digital Communications Satellite Subsystem) Automation System (MIDAS)
MIES	Modernized Imagery Exploitation System (MIES)
MM Guidance Replacement Prog	Minuteman Guidance Replacement Program (GRP)
MM III Sustainment/Deactivation	Minuteman (MM) III Sustainment/Deactivation
MM Propulsion Replacement Prog	Minuteman Propulsion Replacement Program (PRP)
MONO-STATIC SBR	Mono-static Space Based Radar (SBR)
MOTIF	Maui Optical Tracking & Identification Facility (MOTIF)
MSSS	Maui Space Surveillance System (MSSS)
MSTI	Miniature Sensor Technology Integration (MSTI)
Mark IV	Mark IV
Mark IV-B	Mark IV-B
Maui	Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) at Maui
Maui GEODSS Upgrades	Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) Upgrades at Maui
Mid-Course Space Experiment	Mid-Course Space Experiment (MSX)
Military Space Plane	Military Space Plane
Millstone-Haystack	Millstone Haystack
Millstone-Haystack Auxillary	Millstone-Haystack Auxillary
Milstar I	Milstar I
Milstar II	Milstar II
Mini-Demand Assigned Mult Access	Mini-Demand Assigned Multiple Access (DAMA)

Miniature Airborne GPS Rec. 2000	Miniature Airborne Onboard Processing (GPS) Receiver 2000 (MAGR-2000)
Miniaturized Airborne GPS Rec.	Miniaturized Airborne Global Positioning System (GPS) Receiver (MAGR)
Misawa	Misawa
Missile Nav & Re-Entry Vehicles	Missile Navigation and Re-entry Vehicles
Mobile Satellite Service (MSS)	Mobile Satellite Service (MSS)
Modeling and Simulation	Modeling and Simulation
Modified Miniature Rec Terminal	Modified Miniature Receive Terminal (MMRT)
N/UWSS	NORAD/USSPACECOM Warfighting Support System (N/UWSS)
NAVSPASUR	Navy Space Surveillance (NAVSPASUR)
NAVWAR Adv Concept Tech Demo	Navigational Warfare (NAVWAR) Advanced Concept Technology Demonstration (ACTD)
NBC Detection	Nuclear, Biological, Chemical (NBC) Detection
NCMC-TW/AA	NORAD Cheyenne Mountain Complex (NCMC) Threat Warning/Attack Assessment
NEMSS	National Environmental Monitoring Satellite System (NEMSS)
NMD BMC3 Prototype	National Missile Defense Battle Management Command, Control, and Communications (NMD BMC3) Prototype
NPOESS	National Polar-orbiting Operational Environmental Satellite System (NPOESS)
Natl Security Space Architect	National Security Space Architect (NSSA)
Naval Space Cmnd (NAVSPACECOM)	Naval Space Command (NAVSPACECOM)
Navy Area Defense	Navy Area Defense
Navy Theater-Wide TBMD	Navy Theater Wide Theater Ballistic Missile Defense System (TBMD)
Network Control Station (NCS)	Network Control Station (NCS)
Network Operations Upgrades	Network Operations Upgrades (NOU)
Optical C3 Facility	Optical C3 Facility
Optical Component Technology	Optical Component Technology
Osan	RF Surveillance Site at Osan
PAC-3	Patriot Advanced Capability-3 (PAC-3)
PARCS	Perimeter Acquisition Radar Attack Characterization System (PARCS)
PAVE PAWS	PAVE Phased Array Warning System (PAWS)
PK Sustainment/Deactivation	Peacekeeper (PK) Sustainment/Deactivation
POES	Polar-orbiting Operational Environmental Satellite (POES)
POLAR ADJUNCT I	Polar Adjunct I
POLAR ADJUNCT II	POLAR ADJUNCT II
Passive Imaging	Passive Imaging
Pegasus	Pegasus
Pirinlik	Pirinlik
Precision Lightweight GPS Rec.	Precision Lightweight GPS Receiver (PLGR)
Propellant Development	Propellant Development
RANGEU	Range Upgrades (RANGEU)
RSA Phase 1	Range Standardization and Automation (RSA) Phase 1
RSA Phase 2A/B	Range Standardization and Automation (RSA) Phase 2A/B
RULLI	Remote Ultra Low Light-level Imaging (RULLI)
Radiant BERYLLIUM	Radiant BERYLLIUM
Radiant BREEZE	Radiant BREEZE
Radiant CIRRUS IV	Radiant CIRRUS IV
Radiant COAL	Radiant COAL
Radiant COPPER	Radiant COPPER

Radiant CRIMSON	Radiant CRIMSON
Radiant CRYSTAL	Radiant CRYSTAL
Radiant ELM	Radiant ELM
Radiant FROST	Radiant FROST
Radiant GOLD	Radiant GOLD
Radiant HAIL	Radiant HAIL
Radiant JADE	Radiant JADE
Radiant OAK II	Radiant OAK II
Radiant PINE	Radiant PINE
Radiant SILVER	Radiant SILVER
Radiant STORM	Radiant STORM
Radiant THUNDER	Radiant THUNDER
Radiant TIN	Radiant TIN
Radiant TOPAZ	Radiant TOPAZ
Remote Optical	Remote Optical
Robins	PAVE Phased Array Warning System (PAWS) at Robins
Rocket System Launch Program	Rocket System Launch Program
SABRS	Space and Atmospheric Burst Reporting System (SABRS)
SBIRS (High) NUDET Package	Space Based Infrared System (SBIRS) (HIGH) Nuclear Exo-atmospheric Detonation (NUDET) PACKAGE
SBIRS High	Space Based Infrared System (SBIRS) High
SBIRS Low	Space Base Infrared System (SBIRS) Low
SCAMP Terminal	Single Channel Anti-Jam Man Portable (SCAMP) Terminal
SCC/ALTERNATE SCC	Space Control Center (SCC)/Alternate SCC
SCINDA	Scintillation Network Decision Aid (SCINDA)
SCIS	Survivable Communications Integration System (SCIS)
SDIN	Space Defense Interface Network (SDIN)
SETT Models	Space Environment Technology Transition (SETT) Models
SFIR	Swept Frequency Interferometric Radiometer (SFIR)
SMART-T	Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T)
SOBEDS	Small On-Board Environmental Diagnostic System (SOBEDS)
SP-Based Relocatable RF Jammer	Space-Based Relocatable RF Jammer
SRBL	Solar Radio Burst Locator (SRBL)
SSNIP	Space Surveillance Network Improvement Program (SSNIP)
STAR-T	SHF Tri-Band Advanced Range-Extension Terminal (STAR-T)
STT	Small Tactical Terminal
STW&ARS	Satellite Threat Warning and Attack Reporting System (STW&ARS)
SWATH ACTD	Space Weather and Terrestrial Hazards (SWATH) ACTD
SWIMER	Solar Wind Interplanetary Magnetic Field Monitor and Energy Particle Real-time (SWIMER)
Satellite Control	Satellite Control
Science & Technology Experiments	Science & Technology Experiments
Scintillation Satellite	Scintillation Satellite
Semiconductor and Solid State	Semiconductor and Solid State Laser Technology
Shuttle Operations	Shuttle Operations
Single Channel Transponder Sys	Single Channel Transponder System (SCTS)
Small Aperture Telescope	Small Aperture Telescope Augmentation

Augment	
Small RF Vehicle	Small RF Vehicle
Socorro	Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) at Socorro
Socorro GEODSS Upgrades	Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) Upgrades at Socorro
Soil Moisture Sensor	Soil Moisture Sensor
Solar Mass Ejection Imager	Solar Mass Ejection Imager (SMEI)
Solar Stereo	Solar Stereo (NASA/NOAA/AFSPC)
Solar Wind Satellite	Solar Wind Satellite
Source Components	Source Components
Space Effects on Sat. Sys.	Space Effects on Satellite Systems
Space Power	Space Power
Space Sensors	Space Sensors
Space Test Program	Space Test Program
Space Warfare Center (SWC)	Space Warfare Center (SWC)
Space Weather Analysis	Space Weather Analysis
Space and Missile Systems Center	Space and Missile Systems Center (SMC)
Space-Based Data Relay	Space-Based Data Relay (SBDR)
Space-Based Deep Space Imager	Space-Based Deep Space Imager
Space-Based Laser	Space-Based Laser (SBL)
Space-Based Range	Space-Based Range (SBR)
Spacecraft Propulsion	Spacecraft Propulsion
Structural Systems	Structural Systems
TES	Tactical Exploitation System (TES)
THAAD	Theater High Altitude Air Defense (THAAD) System
TIBS/TDDS	Tactical Information Broadcast System/Tactical Related Application Data Distribution System (TIBS/TDDS)
TOS/ROS	Transportable Optical System/Relocatable Optical System (TOS/ROS)
TRADEX	TRADEX (Target Resolution and Discrimination Experiment)
TROJAN SPIRIT	TROJAN SPIRIT (Special Purpose Integrated Remote Intelligence Terminal)
TV Direct-To-Sailors (TV-DTS)	Television Direct-To-Sailors (TV-DTS)
Tactical Propulsion	Tactical Propulsion
Talon VISION	Talon VISION
Talon WARRIOR	Talon WARRIOR (Direct Space Integration-DSI)
Talon COMMAND	Talon COMMAND
Talon KNIGHT	Talon KNIGHT
Talon OUTLOOK	Talon OUTLOOK
Talon READY	Talon READY
Talon SHOOTER	Talon SHOOTER
Talon TRANSITION	Talon TRANSITION
Target Acquisition for Combat	Target Acquisition for Combat Operations
Target Background Dissemination	Target-Background Discrimination for Surveillance
Taurus	Taurus
Technology Infrastructure	Technology Infrastructure
Terrestrial Weather Sensor Upgds	Terrestrial Weather Sensor Upgrades
Thule	Ballistic Missile Early Warning Radar System (BMEWS) at Thule
Titan II	Titan II
Titan IVA	Titan IVA

Titan IVB	Titan IVB
UAV BPI	Unmanned Aerial Vehicle (UAV) Boost Phase Intercept (BPI)
UEWR	Upgraded Early Warning Radars
UHF Follow-on (UFO)	Ultra High Frequency (UHF) Follow-on (UFO)
UHF Next Generation Satellite	UHF Next Generation Satellite
US Army Space Cmnd (USARSPACE)	United States Army Space Command (USARSPACE)
US Space Command (USSPACECOM)	United States Space Command (USSPACECOM)
USAF Space Battlelab	USAF Space Battlelab
USNDS	United States Nuclear Detonation Detection System (USNDS)
Universal Modem System (UMS)	Universal Modem System (UMS)
Weapons Applications	Weapons Applications
Western Range	Western Range
Wideband Gapfiller	Wideband Gapfiller
Wind LIDAR ATD	Wind Light Detection and Ranging (LIDAR) ATD

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