## SECRET

## POINT PAPER

## <del>(U)</del> TECHNOLOGY FOR AUTONOMOUS OPERATIONAL SURVIVABILITY (TAOS) ON-ORBIT OPERATIONS

(U) Phillips Lab payloads and experiments manifested on AF Space Test Program (STP) spacecraft	
(U) Launched fromVandenberg AFB 13 Mar 94 on first ARPA Taurus launch vehicle (U) First flight of AF STP Space Test Experiments Platform (STEP) space vehicle (U) One year mission, 290 x 300 Nmi near circular, 105 degree inclined orbit (U) Mission Control extensive US & AF SPACECOM operation center participation	
(U) TAOS payloads (selected by PL (then AFSTC), AF & US SPACECOM team late1988/early 1989)	
<del>(U)</del> Directly address AFSPACECOM satellite and space control requirements <del>(U)</del> Autonomous space navigation systems (fully autonomous system and GPS receiver) <del>(U)</del> Advanced data processing networks and computer systems <del>(U)</del>	
<del>(S)</del>	
(U) On-orbit operations divided into 5 major phases or categories	
(U) Launch/early orbit operations; 2-3 week spacecraft/payload initialization and checkout (Cat A)	
<del>(U)</del> Autonomous space navigation system test and evaluation continuous throughout mission using ground-derived and GPS based references (Cat B)	
<del>(U)</del>	5X1
<del>(U)</del> AFSPACECOM SSN and	
<del>(S)</del> <del>(S)</del>	
<del>(S)</del> <del>(S)</del> <del>(S)</del>	
<del>(U)</del> Support to US and AF Space Command designed space control training exercises (Cat E)	
(S) TAOS is an instrumented, highly maneuverable, dynamic "scoring" system (S) "Single Sortie" exercises emphasize counterspace/protection disciplines ("Red Flag") (U) Directly involve Cheyenne Mountain and Falcon AFB crews and assets (S) Larger scale world-wide "Space Campaign" exercises later in mission to "tie together" lessons learned and skills acquired in "Single Sortie" exercises	
22 Mar 94	

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