

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems					
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	0	0	40,053	87,863	74,761	25,981	14,966	Continuing	TBD
A001 Counter Satellite Communications System	0	0	9,187	7,387	3,882	3,973	4,084	Continuing	TBD
A002 Counter Surveillance Reconnaissance System	0	0	23,883	73,717	54,184	5,109	1,963	Continuing	TBD
A003 Rapid Identification Detection and Reporting System (RAIDRS)	0	0	6,983	6,759	16,695	16,899	8,919	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

In FY2003, all the efforts of this new PE were transferred from PE 0603438F, Space Control Technology, in order to begin Budget Activity 5, System Engineering and Manufacturing Development work for project 65A001, Counter Satellite Communications System and 65A002, Counter Surveillance Reconnaissance System, which were FY2002 PB new starts.

In FY2003, Project 65A003, Rapid Attack Identification and Reporting System, includes a new start effort.

(U) **A. Mission Description**
 This program supports the conduct of critical planning, technology development, and system acquisition in support of Air Force space control system development to meet current and future military space control needs. Engineering and manufacturing development (EMD) of counterspace systems will be conducted, capitalizing on the technology development and risk reduction efforts of PE 0603438F, Space Control Technology. This funding supports engineering and manufacturing development of negation systems which include the means to disrupt, deny, degrade, or destroy an adversary's space systems, or the information they provide, which may be used for purposes hostile to U.S. national security interests.
 Also included in these efforts is system development of both active and passive measures to protect U.S. and friendly space systems (satellites, communications links, and supporting ground systems) from natural threats and from enemy attempts to negate or interfere with space operations. This includes development efforts to prevent adversarial ability to use U.S. space systems and services for purposes hostile to U.S. national security interests.

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<p>(U) <u>B. Budget Activity Justification</u> This program is in Budget Activity 5, Engineering and Manufacturing Development, because it supports the engineering and manufacturing development of counterspace and space control systems.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">40,053</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">40,053</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u> FY 2003. Content transferred from PE 0603438F in order to transition into Engineering and Manufacturing Development.</p>					<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	0	0	0	TBD	(U) Appropriated Value	0	0			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	0	0			b. Small Business Innovative Research	0	0			c. Omnibus or Other Above Threshold Reprogram	0	0			d. Below Threshold Reprogram	0	0			e. Rescissions	0	0			(U) Adjustments to Budget Years Since FY 2002 PBR	0	0	40,053		(U) Current Budget Submit/FY 2003 PBR	0	0	40,053	TBD
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>																																																						
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Page 2 of 11 Pages		Exhibit R-2 (PE 0604421F)																																																								

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2002	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A001	
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
A001 Counter Satellite Communications System	0	0	9,187	7,387	3,882	3,973	4,084	Continuing	TBD
Content transferred from PE 0603438F, Space Control Technology in FY03									
(U) A. Mission Description									
This effort supports concept exploration and follow-on system development of a mobile/transportable counter satellite communications system derived from technologies examined in the Space Control Technology program (0603438F) in the area of Offensive Counter Space counter communications. It includes system hardware design and development, software design and integration, testing and procurement of a capability to provide jamming of satellite communications signals in response to USSPACECOM requirements.									
(U) FY 2001 (\$ in Thousands)									
(U) \$0	No Activity								
(U) \$0	Total								
(U) FY 2002 (\$ in Thousands)									
(U) \$0	No Activity								
(U) \$0	Total								
(U) FY 2003 (\$ in Thousands)									
(U) \$8,008	Continue to develop, integrate, test, and field a lightweight, transportable SATCOM Jammer								
(U) \$700	Program Office technical support								
(U) \$479	DT/OT Testing support								
(U) \$9,187	Total								
(U) B. Project Change Summary									
FY 2003. Content transferred from PE 0603438F, Space Control Technology									
Project A001			Page 3 of 11 Pages				Exhibit R-2A (PE 0604421F)		

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A001		
(U) C. Other Program Funding Summary (\$ in Thousands)										
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>	
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		
(U) AF RDT&E										
(U) Other APPN										
(U) D. Acquisition Strategy										
All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.										
(U) E. Schedule Profile										
			<u>FY 2001</u>			<u>FY 2002</u>			<u>FY 2003</u>	
			1	2	3	4	1	2	3	4
(U) Counter Communications Technology Demo										
(U) Contract award for Lightweight SATCOM Jammer system development										
(U) Lightweight SATCOM Jammer system development										
(U) Deliver 1st Basic System										
(U) Operational Assessment - 1st system										
(U) Training and Tech Order Development										
* = Completed X= Scheduled										
Note: FY 2001 and FY 2002 content executed in PE0603438F, Space Control Technology.										
Project A001			Page 4 of 11 Pages				Exhibit R-2A (PE 0604421F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2002		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A001	
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Develop, integrate, test, and field SATCOM Jammer capability					0		0		8,008
(U)	Program Office technical support (FFRDC)					0		0		700
(U)	DT/OT testing support					0		0		479
(U)	Total					0		0		9,187
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
FFRDC, Various SETA, SPO	TBD	TBD	TBD	TBD	0	0	0	8,008	Continuing	TBD
<u>Support and Management Organizations</u>										
SMC	TBD	TBD	TBD	TBD	0	0	0	700	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
AFOTEC	TBD	TBD	TBD	TBD	0	0	0	479	Continuing	TBD
					<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Subtotals</u>										
Subtotal Product Development					0	0	0	8,008	TBD	TBD
Subtotal Support and Management					0	0	0	700	TBD	TBD
Subtotal Test and Evaluation					0	0	0	479	TBD	TBD
Total Project					0	0	0	9,187	TBD	TBD

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2002	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A002	
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
A002 Counter Surveillance Reconnaissance System	0	0	23,883	73,717	54,184	5,109	1,963	Continuing	TBD
Content transferred from PE 0603438F, Space Control Technology, in order to begin system Engineering and Manufacturing Development begun as a new start in FY02.									
(U) A. Mission Description									
This effort supports concept exploration and follow-on system development of a mobile/transportable counter space based surveillance reconnaissance capability derived from technologies examined in the Space Control Technology program (0603438F). It includes system hardware design and development, software design and integration, and testing and procurement to provide a capability to counter space based systems in response to USSPACECOM requirements.									
(U) FY 2001 (\$ in Thousands)									
(U) \$0	No Activity								
(U) \$0	Total								
(U) FY 2002 (\$ in Thousands)									
(U) \$0	No Activity								
(U) \$0	Total								
(U) FY 2003 (\$ in Thousands)									
(U) \$19,083	Continue engineering and manufacturing development of a Counter Surveillance Reconnaissance system. Includes acquisition of an EMD unit. Begins source selection and award of contract. Will incorporate System Requirements Review (SRR) and potentially a Preliminary Design Review in late FY03.								
(U) \$3,500	Continue specific technology development for the Counter Surveillance Reconnaissance System.								
(U) \$500	Provide support for component field testing.								
(U) \$800	Continue development and implementation of modeling and simulation codes specific to Counter Surveillance Reconnaissance threats. Includes vulnerability analysis of these threats.								
(U) \$23,883	Total								
(U) B. Project Change Summary									
FY 2003. Content transferred from PE 0603438F, Space Control Technology									
Project A002			Page 6 of 11 Pages				Exhibit R-2A (PE 0604421F)		

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A002		
(U) C. Other Program Funding Summary (\$ in Thousands)										
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>	
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		
(U) AF RDT&E								Continuing		
(U) Other APPN								Continuing		
(U) D. Acquisition Strategy										
All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.										
(U) E. Schedule Profile										
		<u>FY 2001</u>				<u>FY 2002</u>			<u>FY 2003</u>	
	1	2	3	4	1	2	3	4	1	2
(U) Complete Counter Surveillance Reconnaissance Military Utility Analysis					*					
(U) Pre-Milestone B System Development New Start						X				
(U) Milestone B for Counter Surveillance Reconnaissance									X	
(U) Operational Requirements Document Completion									X	
(U) Counter Surveillance Reconnaissance System Source Selection										X
(U) Counter SR system contract award										X
* = Completed Event X = Scheduled Event										
Note: Content in FY 2002 executed in PE 0603438F, Space Control Technology										
Project A002			Page 7 of 11 Pages				Exhibit R-2A (PE 0604421F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development				0604421F Counterspace Systems				A002		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Acquisition of Counter SR EMD unit					0		0		19,083
(U)	Technology Development					0		0		3,500
(U)	Support for component field testing					0		0		500
(U)	Develop and implement modeling and simulation codes					0		0		800
(U)	Total					0		0		23,883
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
	FFRDC, Various SETA, SPO	TBD	TBD	TBD	0	0	0	22,583	Continuing	TBD
<u>Support and Management Organizations</u>										
	SMC	TBD	TBD	TBD	0	0	0	800	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
	AFOTEC	TBD	TBD	TBD	0	0	0	500	Continuing	TBD
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
	<u>Subtotals</u>				<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
	Subtotal Product Development				0	0	0	22,583	TBD	TBD
	Subtotal Support and Management				0	0	0	800	TBD	TBD
	Subtotal Test and Evaluation				0	0	0	500	TBD	TBD
	Total Project				0	0	0	23,883	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2002		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A003		
COST (\$ in Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
A003	Rapid Identification Detection and Reporting System (RAIDRS)	0	0	6,983	6,759	16,695	16,899	8,919	Continuing	TBD
<p>FY2003: Content transferred from PE 0603438F, Space Control Technology, in order to begin system Engineering and Manufacturing Development.</p> <p>FY2003: A new task is being initiated with this President's Budget: - Rapid Attack Identification and Threat Reporting System (RAIDRS) system development.</p> <p>(U) <u>A. Mission Description</u> This effort supports concept exploration, architecture development and engineering and manufacturing development to provide attack warning, threat identification and characterization, and rapid mission impact assessments of U.S. space systems. The concepts explored will investigate the technical architecture, operational concept, support concept development, training, verification (test), and deployment of a Rapid Attack Identification Detection and Reporting System (RAIDRS).</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u> (U) \$4,483 Initiate multiple contract awards for continued concept definition of a Rapid Attack Identification Detection and Reporting System. Development of an Attack Warning system architecture. (U) \$1,500 Begin pre-Milestone B activities. Development of documentation to prepare for Milestone B decision in 4th quarter. (U) \$1,000 Continue system specific risk reduction efforts of advanced technologies. (U) \$6,983 Total</p> <p>(U) <u>B. Project Change Summary</u> FY 2003. Content transferred from PE 0603438F, Space Control Technology</p>										
Project A003			Page 9 of 11 Pages				Exhibit R-2A (PE 0604421F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604421F Counterspace Systems				PROJECT A003		
(U) C. Other Program Funding Summary (\$ in Thousands)										
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>	
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		
(U) AF RDT&E										
(U) Other APPN									TBD	
(U) D. Acquisition Strategy										
All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.										
(U) E. Schedule Profile										
		<u>FY 2001</u>				<u>FY 2002</u>			<u>FY 2003</u>	
			1	2	3	4	1	2	3	4
(U) Potential attack reporting solutions and architecture studies complete								X		
(U) Attack Warning concept definition									X	
(U) RAIDRS Milestone Decision										X
(U) Begin development of Attack Warning architecture							X			
(U) Attack Warning architecture defined										X
X = Scheduled Event										
Note: FY2002 content executed in PE0603438F, Space Control Technology										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2002		
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
05 - Engineering and Manufacturing Development					0604421F Counterspace Systems				A003	
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Concept definition of a Rapid Attack Identification Decton and Reporting System					0		0		4,483
(U)	Pre-Milestone B activities					0		0		1,500
(U)	System risk reduction activities of advanced technologies					0		0		1,000
(U)	Total					0		0		6,983
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
FFRDC, Various SETA, SPO	TBD	TBD	TBD	TBD	0	0	0	5,483	Continuing	TBD
<u>Support and Management Organizations</u>										
SMC	TBD	TBD	TBD	TBD	0	0	0	1,500	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>					<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					0	0	0	5,483	TBD	TBD
Subtotal Support and Management					0	0	0	1,500	TBD	TBD
Subtotal Test and Evaluation										
Total Project					0	0	0	6,983	TBD	TBD