Figael Veen	EX 2000		EV 05/11/2000
Fiscal Year:	FY 2009	Task Last Updated:	FY 05/11/2009
PI Name:	Sandor, Aniko Ph.D.		
Project Title:	Usability evaluation		
Division Name:	Human Research		
Program/Discipline:	HUMAN RESEARCH		
Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHSpace Human Factors	Engineering	
Joint Agency Name:		TechPort:	No
Human Research Program Elements:	(1) SHFH:Space Human Factors & Habitability	(archival in 2017)	
Human Research Program Risks:	(1) HSIA:Risk of Adverse Outcomes Due to Inadequate Human Systems Integration Architecture		
Space Biology Element:	None		
Space Biology Cross-Element Discipline:	None		
Space Biology Special Category:	None		
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PI Web Page:			
City:	Houston	State:	TX
Zip Code:	77058	Congressional District:	22
Comments:			
Project Type:	GROUND	Solicitation / Funding Source:	Directed Research
Start Date:	10/01/2008	End Date:	09/30/2011
No. of Post Docs:		No. of PhD Degrees:	
No. of PhD Candidates:		No. of Master' Degrees:	
No. of Master's Candidates:		No. of Bachelor's Degrees:	
No. of Bachelor's Candidates:		Monitoring Center:	NASA JSC
Contact Monitor:	Woolford, Barbara	Contact Phone:	218-483-3701
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Flight Program:			
Flight Assignment:			
Key Personnel Changes/Previous PI:			
COI Name (Institution):	Holden, Kritina (Lockheed-Martin/ NASA Jol Archer, Ronald (Lockheed-Martin/ NASA Jol	1 /	
Grant/Contract No.:			
Performance Goal No.:			
Performance Goal Text:			
Task Description:	This proposal addresses the need for research in usability testing in order to define quantifiable a human-in-the-loop evaluation where a participa hardware/software under investigation. The pur measuring and verifying usability in the aerospa mobility/maneuverability. Usability metrics mu and/or calculate, and must meet the intent of cu must work within the constraints of the aerospa extensive specialized training.	nd verifiable usability requirements. A usant works through a realistic set of represent pose of this research is to define metrics and ce domain in accordance with FY09 focus at be predictive of success with the interfar rent Human Systems Integration Requirer	ability test is a tative tasks using the ad methodologies for s on errors, consistency, and ces, must be easy to obtain nents (HSIR). Methodologies
Lask Description.	extensive specialized ranning.		

	The key driver for this directed research project (DRP) is the desire to promote and facilitate the development of usable Constellation vehicles and habitats. In past programs, usability has often been an afterthought – with human factors activities coming far too late in the development lifecycle to make a difference. It is the goal of this DRP to provide research-based methodologies and metrics early enough in the Orion program to positively impact development. Once new methodologies and metrics are developed, they will be field tested in real-world design efforts, iterated based on results, and finally described in reports and guidelines manuals, along with their application to requirements
Rationale for HRP Directed Research	:
Research Impact/Earth Benefits:	
Task Progress:	New project for FY2009.
Bibliography Type:	Description: (Last Updated: 03/03/2016)