

Overview

This revised budget justification for the award "Gemini in the Era of MMA: High Image Quality and Rapid Response" describes the request for approval for fiscal years 2019 through 2024 (10/1/2018 – 9/31/2024). The narrative describes key costs as presented on NSF FastLane Form 1030.

AURA Gemini requests approval based on 2 CFR Subpart D Title 2 Part 200.308. The proposed move exceeds the threshold as described in the above citation. AURA Gemini requests to move funds from line G-5 "Other Direct Costs, Contracted Services" to Line A, B, and C " "Personnel and Fringe Benefits" to cover costs of CSA 1539773 O&M staff working on projects funded by CSA1839225 from the CSA 1839225 funds.

The costs listed in G-5 associated with the up-scope option of the ASM has been reduced to support the necessary FTEs in previously planned in-kind contributions from CSA 1539773. O&M staff paid from O&M CSA funds was deemed unallowable under CSA 1839225. Funds for relocation and training for new hires were added as they were overlooked in the original approved budget. See page 3 for comparative budget information.

Line B2 - Other Professionals: 6.838.763

Personnel costs are estimated on the basis of Job Descriptions representing the skills and knowledge required by the projects in this budget request: Project Manager, Project Support Associate, Electronics Engineer, Mechanical Engineer, Systems Engineer, Software Engineer, Optical Engineer, Detector Engineer, AO Scientist and PIO Coordinator using averages of current salaries for staff in comparable positions within Gemini Observatory.

Fringe Benefits: 3,841,333

The rate of FY 2019 rate of 56.17% is applied to 83% of the base pay - the "work hours" of the salary of personnel noted in the section above.

Table 2 - FY19 Proposed Rates

Fringe Benefit Rates								
Description	Rate	Base						
U.S. Dollar (\$) Paid Employees	56.17%	Salaries and wages						
Chilean Employees	40.23%	Salaries and wages						
Temporary Employees	16.22%	Salaries and wages						

Line D - Capital Equipment: 3,305,230

Permanent equipment includes adaptive optics, real time computer and components, mechanical, electronics and facilities equipment. The capital items in the proposal are anticipated to be "custom-made." Most equipment, estimates were based on historical costs associated with similar purchased equipment, with allowance made for changes in design and technology. In some circumstances components that are "COTS" (Commercial off-the-shelf) costs were estimated from vendor price lists.

Line E1 - Domestic Travel

Travel costs are estimated based on historical costs for similarly scaled Gemini Projects.

Description	Total Cost
Standard functional travel	401,946

Line E2 - Foreign Travel

Foreign travel costing assumptions are described in detail in the CEP.

Description	Total Cost
Standard functional travel	541,216
Total Travel	943,161

Line G1 - Materials and Supplies: 191,314

See the CEP for an explanation of materials & supplies.

Line G2 - Publication Costs: 0

Line G5 - G7 -Other: 9,350,480

Manufacturing of project components may be obtained through a procurement process resulting in a sub contract. See the CEP for details.

Line I – Indirect Costs: 1,479,837

Standard AURA-Gemini indirect costs are explained in the CEP.

Line J - Total Direct and Indirect Costs: 25,974,118

CTABLE CURALIAN DUDGET ALL DROUGETS							
GEMMA - SUMMARY BUDGET - ALL PROJECTS	munu a	DIES A	P1/P2.4	D/22.2	51555	D100 4	T0741
AT 5/23/19	FYE19	FYE20	FYE21	FYE22	FYE23	FYE24	TOTAL
Senior Personnel	0	0	0	0	0	0	0
Other Personnel	1,066,404	1,873,191	1,737,063	1,127,480	610,221	424,404	6,838,763
Total Salaries and Wages	1,066,404	1,873,191	1,737,063	1,127,480	610,221	424,404	6,838,763
Fringe Benefits	598,999	1,052,171	975,708	633,306	342,761	238,388	3,841,333
Total Salaries/Wages/Benefits	1,665,404	2,925,363	2,712,771	1,760,786	952,982	662,791	10,680,096
Equipment	0	0	156,160	2,768,430	380,640	0	3,305,230
Domestic Travel	104,041	93,101	70,053	48,589	46,766	39,395	401,946
Foreign Travel	101,875	160,140	96,087	52,075	48,636	82,404	541,216
Total Travel	205,916	253,241	166,140	100,664	95,402	121,799	943,161
Participant Support	0	0	0	0	0	0	0
Other Direct Costs: Materials and Supplies	28,177	38,560	35,576	16,592	60,714	11,694	191,314
Other Direct Costs: Publication/Documentation/Dissemination	0	0	0	0	0	0	0
Other Direct Costs: Consultant Services	12,000	0	12,000	0	0	0	24,000
Other Direct Costs: Computer Services	0	0	0	0	0	0	0
Other Direct Costs: Subawards	0	0	0	0	0	0	0
Other Direct Costs: Other	119,920	1,515,449	1,870,720	1,941,515	2,235,420	1,667,455	9,350,480
Total Other Direct Costs	160,098	1,554,010	1,918,297	1,958,108	2,296,134	1,679,148	9,565,794
Total Direct Costs	2,031,417	4,732,614	4,953,367	6,587,987	3,725,158	2,463,738	24,494,281
Indirect Costs - Calculated on Total Project in IDC Account	189,306	333,908	538,823	218,567	115,892	83,340	1,479,837
Total Direct and Indirect Costs	2,220,723	5,066,522	5,492,190	6,806,554	3,841,050	2,547,078	25,974,118
CSA Period of Performance Start:	10/1/18						
CSA Period of Performance End:	9/30/24						

CONTRACT, MTDC & BASIS FOR FEES							
AT 5/22/19							
CONTRACTS by Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	-Total Fiscal Years
GR2120000 GNAO/RTC	25,235	1,198,572	1,834,266	1,905,061	2,126,042	1,594,532	8,683,708
GR2150000 PIO, Publications, Education MMA	0	207,500	0	0	0	0	207,500
TOTAL CONTRACTS	25,235	1,406,072	1,834,266	1,905,061	2,126,042	1,594,532	8,891,208
MTDC ADJUSTMENT - Contract Pmts over \$25k per year	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	-Total Fiscal Years
GNAO/RTC Contracts -4contracts over 6 years @ \$25k each	(235)	(1,123,572)	(1,784,266)	(1,855,061)	(2,101,042)	(1,569,532)	(8,433,708)
PIO, Publications, Education MMA		(182,500)					(182,500)
Total MTDC Adjustment	(235)	(1,306,072)	(1,784,266)	(1,855,061)	(2,101,042)	(1,569,532)	(8,616,208)
Basis for Fees	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	-Total Fiscal Years
GR2120000 GNAO	25,000	75,000	50,000	50,000	25,000	25,000	250,000
GR2150000 PIO, Publications, Education MMA	0	25,000	0	0	0	0	25,000
Basis for Fees - Contracts	25,000	100,000	50,000	50,000	25,000	25,000	275,000

WBS 1.1 PMO Mgmt Account						22% Con	nplexity Factor			
May 23, 2019		FY	E19	FYE20	0	FYE21	FYE22	FYE23	FYE24	TOTAL
Senior Personnel			0		0		0	0 0	0	0
Other Personnel		1	173,923	157	7,717	157,9	162,66	6 166,904	181,968	1,001,105
Total Salaries and Wages		1	173,923	157	7,717	157,9	162,66	6 166,904	181,968	1,001,105
Fringe Benefits			97,693	88	8,590	88,7	08 91,36	9 93,750	102,211	562,321
Total Salaries/Wages/Benefits		- 2	271,616	240	6,307	246,6	36 254,03	5 260,653	284,179	1,563,425
Equipment			0		0		0	0 0	0	0
Domestic Travel			34,331	41	1,045	21,2	21,88	2 36,740	24,944	180,171
Total Travel			64,382	79	9,458	29,6	34,25	2 65,598	68,066	341,435
Participant Support			0		0		0	0 0	0	0
Other Direct Costs: Materials and Supplies			24,389	2.5	5,697	25,7	13 8,22	9 5,051	4,834	93,914
Other Direct Costs: Publication/Documentation/Dissemination			0		0		0	0 0	0	0
Other Direct Costs: Consultant Services			0		0		0	0 0	0	0
Other Direct Costs: Computer Services			0		0		0	0 0	0	0
Other Direct Costs: Subawards			0		0		0	0 0	0	0
Other Direct Costs: Other			87,685	109	9,377	36,4	36,45	4 109,377	72,923	452,272
Total Other Direct Costs		1	112,075	139	5,075	62,1	.68 44,68	4 114,429	77,757	546,186
Total Direct Costs		4	448,072	460	0,839	338,4	182 332,97	1 440,680	430,002	2,451,046
Indirect Costs - Calculated on Total Project in IDC Account			0		0		0	0 0	0	0
Total Direct and Indirect Costs		4	448,072	460	0,839	338,4	182 332,97	1 440,680	430,002	2,451,046
WBS 1.2 & 1.3 GNAO/RTC					22	% Comple	exity Factor	•		
May 23, 2019	FYE1	9	FYE	20		FYE21	FYE22	FYE23	FYE24	TOTAL
Senior Personnel		0		0		0	0	0	0	0
Other Personnel	87,685 112,075 448,072 0 448,072 FYE19 FY 0 653,188 1		1,	106,285	:	1,073,066	826,643	443,317	242,436	4,344,935
Total Salaries and Wages	65	3,188	1,	106,285		1,073,066	826,643	443,317	242,436	4,344,935
Fringe Benefits	36	66,896	- (621,400		602,741	464,326	249,011	136,176	2,440,550
Total Salaries/Wages/Benefits	1,02	20,083	1,	727,686	1	1,675,806	1,290,969	692,329	378,613	6,785,485
Equipment		0		0		156,160	2,768,430	380,640	0	3,305,230
Domestic Travel	2	24,143		39,331		39,030	23,929	10,026	14,451	150,910
Foreign Travel	3	36,247		62,765		49,872	28,868	19,778	39,281	236,811
Total Travel	6	50,390	1	102,096		88,902	52,797	29,804	53,732	387,721
Participant Support		0		0		0	0	0	0	0
Other Direct Costs: Materials and Supplies		2,288		6,863		6,863	6,863	55,663	6,860	-
Other Direct Costs: Publication/Documentation/Dissemination		0	<u> </u>	0		0	0	0	0	_
Other Direct Costs: Consultant Services		0		0		0	0	0	0	
Other Direct Costs: Computer Services		0	<u> </u>	0	<u> </u>	0	0	0	0	_
Other Direct Costs: Subawards		0		0		0	0	0	0	-
Other Direct Costs: Other		25,235	,	198,572		1,834,266	1,905,061	2,126,042	1,594,532	
Total Other Direct Costs		27,523	,	205,435		1,841,129	1,911,924	2,181,705	1,601,392	
Total Direct Costs	1,10	7,996	3,0	035,216	2	3,761,998	6,024,120	3,284,478	2,033,737	19,247,544
Indirect Costs - Calculated on Total Project in IDC Account		0	1	0		0	0	0		

WBS 1.4 Ops Software Upgrade		22% 0	Complexity	Factor	
March 4, 2019	FYE19	FYE20	FYE21	FYE22	TOTAL
Senior Personnel	(0 0	0	0	0
Other Personnel	193,90	7 528,245	425,433	130,484	1,278,069
Total Salaries and Wages	193,90	7 528,245	425,433	130,484	1,278,069
Fringe Benefits	108,91	7 296,715	238,966	73,293	717,892
Total Salaries/Wages/Benefits	302,82	4 824,961	664,399	203,777	1,995,961
Equipment		0 0		0	0
Domestic Travel		0 2,777	5,722	2,777	11,277
Foreign Travel	12,44	3 49,896	35,004	10,837	108,180
Total Travel	12,44			13,614	119,457
Participant Support		0 0		0	0
Other Direct Costs: Materials and Supplies		0 0	0	0	0
Other Direct Costs: Consultant Services		0 0	0	0	0
Other Direct Costs: Computer Services		0 0		0	0
Other Direct Costs: Subawards		0 0	_	0	0
Other Direct Costs: Other		0 0		0	0
Total Other Direct Costs		0 0		0	0
Total Direct Costs	315,26	-		217,392	2,115,417
Indirect Costs - Calculated on Total Project in IDC Account		0 0		0	0
Total Direct and Indirect Costs	315,26	7 877,634	705,124	217,392	2,115,417
CSA Period of Performance Start:	10/1/18		700,224	227,002	2,225,427
CSA Period of Performance End:	9/30/24	1			
	9/30/24		vity Factor	İ	
WBS 1.5 PIO, Publications, Education	9/30/24 FYE19	No Comple	xity Factor FYE21	FYE22	TOTAL
		No Comple		FYE22	TOTAL 0
WBS 1.5 PIO, Publications, Education May 22, 2019	FYE19	No Comple	FYE21		TOTAL 0 214,654
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel	FYE19 0	No Comple FYE20	FYE21 0	0	0
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel	FYE19 0 45,387	No Comple FYE20 0 80,944	FYE21 0 80,636	0 7,687	0 214,654
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages	FYE19 0 45,387 45,387	No Comple FYE20 0 80,944 80,944	FYE21 0 80,636 80,636	0 7,687 7,687	0 214,654 214,654
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits	FYE19 0 45,387 45,387 25,494	No Comple FYE20 0 80,944 80,944 45,466	FYE21 0 80,636 80,636 45,293	0 7,687 7,687 4,318	0 214,654 214,654 120,571
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel	FYE19 0 45,387 45,387 25,494	No Comple FYE20 0 80,944 80,944 45,466 126,410	FYE21 0 80,636 80,636 45,293	0 7,687 7,687 4,318 12,005	0 214,654 214,654 120,571
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134	No Comple FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761	0 7,687 7,687 4,318 12,005	0 214,654 214,654 120,571 335,225 0 59,589 34,960
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel	FYE19 0 45,387 45,387 25,494 70,880 0 45,567	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949	FYE21 0 80,636 80,636 45,293 125,929 0 4,073	0 7,687 7,687 4,318 12,005 0 0	0 214,654 214,654 120,571 335,225 0 59,589
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0	0 7,687 7,687 4,318 12,005 0 0	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761	0 7,687 7,687 4,318 12,005 0 0 0 0	0 214,654 214,654 120,571 335,225 0 59,589 34,960
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0	No Comple FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0	0 7,687 7,687 4,318 12,005 0 0 0 0 1,500	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination Other Direct Costs: Consultant Services	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 0	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Disseminatior Other Direct Costs: Consultant Services Other Direct Costs: Computer Services	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0	No Comple FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0	0 7,687 7,687 4,318 12,005 0 0 0 0 1,500	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination Other Direct Costs: Consultant Services Other Direct Costs: Subawards	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0 12,000 0 0	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0 0 0	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0 12,000	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000 0 24,000 0
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Disseminatior Other Direct Costs: Consultant Services Other Direct Costs: Computer Services	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0 12,000	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0 12,000	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination Other Direct Costs: Consultant Services Other Direct Costs: Subawards Other Direct Costs: Other	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0 12,000 0 7,000	No Comple FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0 0 207,500	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0 12,000 0 0	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000 0 24,000 0 214,500
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination Other Direct Costs: Computer Services Other Direct Costs: Subawards Other Direct Costs: Other Total Other Direct Costs	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0 12,000 0 7,000 20,500	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0 0 0 207,500 213,500	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0 12,000 0 0 15,000	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 1,500 0 1,500	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000 0 24,000 0 214,500 250,500
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination Other Direct Costs: Consultant Services Other Direct Costs: Subawards Other Direct Costs: Other Total Other Direct Costs Total Direct Costs	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0 12,000 0 7,000 20,500	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0 0 0 207,500 213,500	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0 12,000 0 0 15,000	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 1,500 0 1,500	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000 0 24,000 0 214,500 250,500
WBS 1.5 PIO, Publications, Education May 22, 2019 Senior Personnel Other Personnel Total Salaries and Wages Fringe Benefits Total Salaries/Wages/Benefits Equipment Domestic Travel Foreign Travel Total Travel Participant Support Other Direct Costs: Materials and Supplies Other Direct Costs: Publication/Documentation/Dissemination Other Direct Costs: Consultant Services Other Direct Costs: Subawards Other Direct Costs: Other Total Other Direct Costs Total Direct Costs Indirect Costs	FYE19 0 45,387 45,387 25,494 70,880 0 45,567 23,134 68,701 0 1,500 0 12,000 0 7,000 20,500 160,082 0	No Complete FYE20 0 80,944 80,944 45,466 126,410 0 9,949 9,065 19,014 0 6,000 0 0 207,500 213,500 358,924 0	FYE21 0 80,636 80,636 45,293 125,929 0 4,073 2,761 6,834 0 3,000 0 12,000 0 15,000 147,763	0 7,687 7,687 4,318 12,005 0 0 0 1,500 0 1,500 0 1,500 13,505	0 214,654 214,654 120,571 335,225 0 59,589 34,960 94,549 0 12,000 0 24,000 0 214,500 250,500 680,273