

From: [Mason Baker](#)
To: [Miller, Michael](#); [Olson, Suzette M](#); [Payne, Mark B](#); [Bates, Melissa \(HO\)](#); [Perry, Jeffrey Neal](#); [Temple, Bob](#); [Nathan Hardy](#)
Subject: [EXTERNAL] Re: Discuss funding of bore hole request for CFPP
Date: Friday, June 26, 2020 12:57:24 PM

Suzette,

UAMPS, in consultation with NuScale, is requesting that the DOE pay 100% of costs associated with core bore work for the CFPP consistent with the amounts and schedule set forth below. As you are aware, proceeding with this work this summer is necessary to meet the ongoing INL sitewide SSHAC and specifically the October SSHAC workshop. Having this data set available for this workshop is necessary in order to preserve the COLA submittal schedule.

It is UAMPS understanding that if the CFPP ceases further development, then DOE will have unfettered ownership rights with respect to core bore work deliverables and there will be no repayment obligation for the amounts that DOE has reimbursed 100%. If the CFPP continues forward with development, then the understanding is that the renewal award will remain open and additional eligible work will be performed and no reimbursement sought for this work in order to true-up the cost share percentage to between DOE and NuScale to 50/50.

Proposed Scope of Work:

1. Pre-mobilization planning (June/July) - Work Plan for drilling, Work Plan for testing, QAPP, HASP, project management
 - a. Amount: (b)(4)
 - b. Timing for Availability of Funding: 6/30
2. Actual Drilling (August):
 - a. Amount: (b)(4)
 - b. Timing of Availability of Funding: 7/15
2. Down Hole Testing & Laboratory Testing (August/September):
 - a. Amount: (b)(4)
 - b. Timing of Availability of Funding: 9/1 (this timing is still being confirmed)

Total Requested Amount of 100% DOE Funding: (b)(4) (We believe this to be a conservative estimate and actual amounts may come in under this estimate; however, as this work has been scoped out additional oversight has been added to the scope and TVA costs were not previously included in the estimates for this work that was previously communicated to DOE.)

UAMPS and NuScale appreciate DOE's consideration of this request and look forward to our further discussion of this request this afternoon.

Sincerely,

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

From: mmiller@nuscalepower.com

When: 3:00 PM - 3:30 PM June 26, 2020

Subject: Discuss funding of bore hole request for CFPP

Location: Webex dial in below.

Follow on discussion of SSHAC bore - review proposal – scopes, costs, cash flow.

– Do not delete or change any of the following text. –

When it's time, join your Webex meeting here.

Meeting number: (b) (6)

Meeting password: (b) (6)

[Join meeting](#)

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Tap to call in from a mobile device (attendees only)

Call-in number (ATT Audio Conference): (b) (6)

Call-in toll-free number (ATT Audio Conference): (b) (6)

[Show global numbers](#)

Access Code: (b) (6)

If you are a host, [click here](#) to view host information.

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From: Miller, Mike
To: Bates, Melissa (HQ)
Subject: [EXTERNAL] RE: DOE/CFPP Call This Week - budget estimate through Sept 2020.
Date: Tuesday, June 30, 2020 3:33:20 PM
Attachments: image002.png

Hi Melissa,

As I'm working funding scenarios with UAMPS, I thought I'd better clarify a couple things:

- how the (b)(4) obligated fund total on the CFPP award discussed in this email related to the \$7M for FY 2020 in the revised DOE-CFPP Funding profile, circled in red below. Are they basically the same thing for FY 2020?
- Do we then get obligated an *incremental* \$7M starting in FY 2021 (Oct 2020) under the CR up until Apr 1 2021? At that point, do we then get obligated the pro-rated difference between 51 and 7 (6/12 months * (51-7)) or an additional 22M on April 1, with 1/12 *(51-7)= \$3.67M each month after until the end of FY 2021?

Scenario Summary:
 Funding profile limited to an intermediate level. DOE funding extends through construction to reduce annual funding needs.
 Commercial Operation Date (COD) in 2029 (Core boring deferred to 2021 causing COLA to slip)

Carbon Free Power Project (CFPP)

Scenario 3 - Funding Constrained to Modified Funding Profile

SOURCES OF FUNDS (\$M)	COLA Prep & Design Completion					Site Prep & COLA Review		Construction			Startup & COD	TOTAL	FY20-FY29
	FY14-FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29		
NuScale (1)	383	31	70	90	57	15	-	-	-	-	-	626	263
UAMPS	3	11	16	21	(7)	137	268	607	1,465	1,460	574	4,556	4,553
Debt Financing	5	22	26	21	(7)	137	268	607	1,465	1,460	574	4,556	4,553
DOE LO-Backed Loans (2)	-	-	-	-	-	-	-	-	-	-	-	-	-
DOE-NE Total	318	100	131	194	198	227	271	231	145	131	125	2,071	1,752
DOE-NE - NuScale SMR	316	86	70	70	40	-	-	-	-	-	-	579	268
DOE-NE CFPP (cost-share)	2	14	61	124	158	227	271	231	145	131	125	1,492	1,484
Program Contributions and Taxes	20	10	10	15	15	15	15	15	15	10	10	130	130
TOTAL - ALL SOURCES (w/o program contributions and taxes)	684	132	207	290	233	364	524	823	1,595	1,581	689	7,122	6,438
TOTAL - ALL SOURCES	684	142	217	305	248	379	539	838	1,610	1,591	699	7,252	6,568
TOTAL - CUMULATIVE	684	826	1,043	1,348	1,596	1,974	2,514	3,352	4,962	6,553	7,252		

DOE Cost Share - UAMPS: 23%
DOE Cost Share - Full Project: 27%

Hopefully that all makes sense.
 Thanks,



Mike Miller
 CFPP Project Manager
 email: mmiller@nuscalepower.com
 web: www.nuscalepower.com
 office: (b) (6)

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From: Miller, Mike
Sent: Tuesday, June 16, 2020 11:01 AM
To: 'Bates, Melissa (HQ)' <melissa.bates@nuclear.energy.gov>; Ford, Brayton J <fordbj@id.doe.gov>; Olson, Suzette M <olsonsm@id.doe.gov>
Cc: Colbert, Christopher <ccolbert@nuscalepower.com>; Nathan Hardy <Nate@uamps.com>; Mason Baker <mason@uamps.com>
Subject: RE: DOE/CFPP Call This Week - budget estimate through Sept 2020.

Melissa, Suzette, Brayton:

One of our deliverables to the DOE for this week is an estimate regarding the budget required on the existing award to get us through Sept 2020. This is to arrive at an additional amount of DOE obligated funds beyond the amount initially allocated to the renewal (b)(4) NuScale and UAMPS have updated their actual + forecast reimbursable budgets through Sept 2020 and calculate that we will just about exactly consume the current obligated amount at the end of that time (within \$11K).

With that 'best-estimate' just running out of funds at the end of Sept, to add margin to ensure we don't run out of obligated funds due to variances to that best estimate, we request an additional **\$400K** be added to the obligated funds of the current award. This margin is a rough estimate based on about a month's work scope at during that time frame, which may be needed for project close-out costs post Sept.

Note that this:

- Does not include any funds for SSHAC bore whole mobilization or early site specific design work, which are separate conversations.
- Assumes all major scope, except current award close out costs, transfers to the new award where UAMPS is the prime recipient.

The details for the budgeted forecast vs remaining obligated funds are available at the link below. The 'final summaries post amendment' tab columns AP-AS have the project forecast through Sept, and the final total vs obligated funds is on 'Reimbursement Summary' tab, cells F15-G16.

<https://securedocs.nuscalepower.com/ngdox/workspaces/43/DOE%20Award%7CDOE%20Communications%7CDOE%20Reports%7CDE-NE0008369%20Other%20Reports%20and%20communications%7CJune%202020%20Budget%20to%20end%20of%20award>

Let me know if we need to talk through this further, and I'll set up a call.

Regards,

Mike Miller
CFPP Project Manager
email: mmiller@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Monday, June 15, 2020 1:05 PM
To: Miller, Mike <mmiller@nuscalepower.com>; Nathan Hardy <Nate@uamps.com>; Mason Baker <mason@uamps.com>; Olson, Suzette M <olsonsm@id.doe.gov>; Ford, Brayton J <fordbj@id.doe.gov>
Cc: Colbert, Christopher <ccolbert@nuscalepower.com>
Subject: DOE/CFPP Call This Week

All,

Chris Colbert has a conflict with our upcoming DOE/CFPP Project call this week and has proposed that the call be rescheduled for either one of the below times, on the same day:

12:00pm EDT
4:00pm EDT

Please let me know if either of these times will work for you.

Thanks,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

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From: [Colbert, Christopher](#)
To: [Bates, Melissa \(HQ\)](#); [Mason Baker](#)
Cc: [Miller, Michael](#); [Feldman, Karin A](#)
Subject: [EXTERNAL] Re: Example Funding Profile for CFPP
Date: Wednesday, July 1, 2020 4:23:01 AM
Attachments: [image001.png](#)

Hey Melissa,

On the second question, based on your clarifications, my answer to my second question would be that under a CR for fy2021 that went through 3/31/2021, the funding available to UAMPS for the New Multi-year Award would be \$3.5M ($\$7\text{M}/\text{yr} \times 6 \text{ months} / 12 \text{ months} / \text{year}$) + \$4.2M (Fy2020 \$7M less \$2.8M for SSHAC Borehole) = \$7.7M.

I did notice that in the case of a \$131M appropriation, you projected \$51M for UAMPS. Based on our prior discussions, I want to confirm that translates into \$10M for NEUP, SBA and other taxes, and \$70M for NuScale – do I have that correct?

Mason, without knowing how UAMPS is sizing its financing and availability, our experience is that you should include cash equal to 2-3 months of expenditure to cover the inevitable delay in DOE reimbursements as you start-up the New Multi-year Award. You will also want to consider covering any delay in year-to-year increases in spending as a result of 3-6 month CRs that constrain spending to prior year levels.

Thanks,

Chris



Christopher Colbert
Chief Strategy Officer

email: ccolbert@nuscalepower.com
web: www.nuscalepower.com
office: 541.360.0586
mobile: (b) (6)

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From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Wednesday, July 1, 2020 2:26 AM
To: Colbert, Christopher <ccolbert@nuscalepower.com>; Mason Baker <mason@uamps.com>
Cc: Miller, Mike <mmiller@nuscalepower.com>; Feldman, Karin <kfeldman@nuscalepower.com>
Subject: RE: [EXTERNAL] Re: Example Funding Profile for CFPP

Chris,

Currently, the entire FY2020 amount still remains whole. However, with the acceleration of the borehole work for the SSHAC, some of this funding is being placed on the renewal cooperative agreement such that the borehole data can be ready by October. As far as the second question, could you rephrase it? I don't understand specifically what is being asked.

Thanks,
Melissa

Sent with BlackBerry Work
(www.blackberry.com)

From: Colbert, Christopher <ccolbert@nuscalepower.com>
Date: Tuesday, Jun 30, 2020, 7:53 PM
To: Mason Baker <mason@uamps.com>, Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Cc: Miller, Michael <mmiller@nuscalepower.com>, Feldman, Karin A <kfeldman@nuscalepower.com>
Subject: [EXTERNAL] Re: Example Funding Profile for CFPP

Melissa,

How much is there currently unused from fy2020? under a CR for fy2021 that went though 3/31/2021 is it reasonable to assume funding availability of \$7Mx6/12 + whatever amount of fy2020 remains unused at 10/1/2020.

Mason,

If uamps builds it budget and plan of finance around \$7M for FY2021, if the appropriation comes through at a higher amount, would uamps have to go back to its members governing boards to amend its budget and plan of finance to spend the higher amount of funding.

Chris

Sent from my iPhone - please excuse typos and autocorrect

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On Jun 30, 2020, at 9:12 PM, Bates, Melissa (HQ)
<melissa.bates@nuclear.energy.gov> wrote:

All,

As discussed on the different calls earlier today, here is an example of what a funding profile could look like for CFPP, if Congress were to appropriate funding according to Scenario 3. In each future year, I assumed a continuing resolution lasted 6 months. I also showed how funding availability relates to the project funding profile if it were

offset with the appropriation cycle by 6 months. Please let me know if this helps.

Thanks,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

<Example Funding Flow.xlsx>

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From: [Mason Baker](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] FW: DOE Funding Request Under Renewal Award
Date: Wednesday, July 1, 2020 4:19:57 PM
Attachments: [L5 BAFO Single Core Price Estimate\[1\].pdf](#)

Please find attached, deleted the fluor attachments that were sent originally below.

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

From: Mason Baker <mason@uamps.com>
Date: Wednesday, June 10, 2020 at 9:09 AM
To: "Bates, Melissa (HQ) (HQ)" <melissa.bates@nuclear.energy.gov>
Subject: DOE Funding Request Under Renewal Award

Melissa,

Please let me know if you have any questions in regards to the below or the attachments. In an effort to get this out to you asap, I haven't included my observations about how these two requests in the aggregate aren't feasible under the \$7M allocated for FY20.

UAMPS is requesting that DOE fund a 100% of the following two scopes of work in order to preserve the CFPP COLA submittal schedule and to achieve a key derisking milestone as quickly as possible—the delivery of revised Project Cost Estimate (Class 3 PCE in ~July 2021). Without DOE providing a 100% funding for these two scopes of work, this work will not commence until after UAMPS has made a decision to proceed (anticipated to be in mid September 2020).

1. **Funding for Core Bore Drilling:** This work is necessary to proceed this summer in order to preserve UAMPS COLA submittal date. If this drilling work does not occur this summer, then the core boring from this drilling will not be ready in time for the schedule October SSHAC workshop that is being conducted as part of INL's ongoing sitewide SSHAC. It is UAMPS' understanding that delaying the SSHAC workshop scheduled for October will result in a delay

in UAMPS COLA submittal date.

- a. **Estimated Costs: (b)(4)** (Attached does not include some PM costs).
- 2. **Funding for Fluor Site Specific Engineering:** The CFPP currently has Class 4 Project Cost Estimate that is being used for the inputs going into the LCOE modeling. It is critical for this Class 4 Project Cost Estimate to be revised to a site specific Class 3 Project Cost Estimate so UAMPS can have additional confidence in achieving its Price Target of \$55/MWh. If this work is not funded for this summer, then the Class Project Cost Estimate would be delivered approximately 3 months later (October 2021) as opposed to July 2021.
 - a. **Estimated Costs: (b)(4) w/o Cost Reduction Workshops**
 - i. **Cost Reduction Workshops=(b)(4) (Work would inform the performance of TO1 to target certain cost areas that are more uncertain/pose greater cost risk to the project).**

Additional supporting materials are provided for reference. It should be noted that UAMPS is currently working to refine these cost estimates.

Best,

Mason Baker
General Counsel

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Attachment, consisting of six (6) pages, is withheld in full under Exemption B4.

**ATTACHMENT A
DETAILED LABORATORY TESTING COSTS**



ATTACHMENT A
LABORATORY TESTING QUANTITIES FOR SOIL/SEDIMENT SAMPLES
(1,500-FOOT CORED BORING ONLY)

MEDIUM	PROPERTIES	TEST	REFERENCE	NO. OF TESTS	
Soil	Index and Static Strength	Compressive Strength	ASTM D4767	4	
		Density (Unit Weight)	ASTM D7263	4	
		Liquid Limit, Plastic Limit, and Plasticity Index	ASTM D4318	4	
		One Dimensional Consolidation	ASTM D2435	4	
		Permeability	ASTM D5084	4	
		Sedimentation (Hydrometer) Analysis	ASTM D7928	4	
		Sieve Analysis	ASTM D6913	4	
		Specific Gravity	ASTM D854	4	
		Water (Moisture) Content	ASTM D2216	4	
	Dynamic Strength	Cyclic Triaxial	ASTM D5311	10	
		Resonant Column Torsional Shear (RCTS)	PBRCTS-1	10	
	Chemical	Chloride Content	AASHTO T 291	2	
		pH	AASHTO T 289	2	
		Sulfate Content	AASHTO T 290	2	
	-	-	Total Soil/Sediment Tests	-	62



ATTACHMENT A (CONTINUED)
LABORATORY TESTING QUANTITIES FOR ROCK SAMPLES
(1,500-FOOT CORED BORING ONLY)

MEDIUM	PROPERTIES	TEST	REFERENCE	NO. OF TESTS
Rock	Index and Static Strength	Compressive Strength	ASTM D7012	6
		Direct Shear Strength	ASTM D5607	6
		Permeability	ASTM D5084	6
		Specific Gravity	ASTM D6473	6
		Unit Weight	-	6
		Water (Moisture) Content	ASTM D2216	6
	Dynamic Strength	Free-Free Resonant Column	Fr-Fr-1	10
		Resonant Column Torsional Shear (RCTS)	PBRCTS-1	10
	Chemical	Chloride Content	AASHTO T 291	3
		pH	AASHTO T 289	3
		Sulfate Content	AASHTO T 290	3
	-	Total Rock Tests	-	65



From: [Bates, Melissa \(HQ\)](#)
To: [Mason Baker](#)
Subject: Item for Discussion
Date: Thursday, July 16, 2020 6:11:00 AM

On July 15, 2020, the Utah Associated Municipal Power Systems (UAMPS) Board of Directors unanimously voted to conditionally approve moving forward with the Carbon Free Power Project. The Carbon Free Power Project is working to construct a Small Modular Reactor (SMR) power plant on DOE's Idaho National Laboratory site using a SMR technology being developed by NuScale Power. The proposed SMR plant would have 12, 60-megawatt modules that could generate 720 megawatts of clean electricity (if operating at 100 percent capacity) by the late 2020s. The full approval is achieved, the project will begin site characterization and development of a Combined License application (COLA) for review by the Nuclear Regulatory Commission. This item is closed to the press.

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

From: [Bates, Melissa \(HQ\)](#)
To: [Colbert, Christopher](#)
Subject: RE: Advanced SMR Request Forecast
Date: Tuesday, July 21, 2020 5:35:00 PM
Attachments: [DOE - CFPP Cost Profile Scenario 3 R1.pdf](#)
[DOE - CFPP Cost Profile Scenario 1 R1.pdf](#)

Chris,

Attached are the two scenarios that were provided to that House and Senate. We indicated that Scenario 1 was NuScale's and UAMPS' preference; however, if the annual budget needs were too high in Scenario 1, then Scenario 3 was created to try to balance the schedule needs for the project with the annual budget appropriation needs. Please let me know if this is what you were looking for.

Melissa

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

-----Original Message-----

From: Colbert, Christopher [<mailto:ccolbert@muscalepower.com>]
Sent: Tuesday, July 21, 2020 7:52 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Subject: [EXTERNAL] Advanced SMR Request Forecast

Melissa,

I'll be talking to senate Appropriations this week and I would like to be sure we are synced up on what the department has presented for combined annual forecast of uamps and nuscale funding 2021-2030.

If possible, Can you send me the latest forecast you have shared with the Hill?

Thanks,

Chris

Sent from my iPhone - please excuse typos and autocorrect

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Scenario Summary:
 Funding profile limited to an intermediate level. DOE funding extends through construction to reduce annual funding needs.

 Commercial Operation Date (COD) in 2029 (Core boring deferred to 2021 causing COLA to slip)

Carbon Free Power Project (CFPP)

Scenario 3 - Funding Constrained to Modified Funding Profile

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DOE LG-Backed Loans [2]	-	-	-	-	-	-	-	-	-	-	-	-	-
DOE-NE Total	318	100	131	194	198	227	271	231	145	131	125	2,071	1,752
DOE-NE - NuScale SMR	316	83	70	70	40	-	-	-	-	-	-	579	263
DOE-NE CFPP (cost-share)	3	7	51	109	143	212	256	216	130	121	115	1,362	1,359
Program Contributions and Taxes		10	10	15	15	15	15	15	15	10	10	130	130
TOTAL - ALL SOURCES (w/o program contributions and taxes)	684	132	207	290	233	364	524	823	1,595	1,581	689	7,122	6,438
TOTAL - ALL SOURCES	684	142	217	305	248	379	539	838	1,610	1,591	699	7,252	6,568
TOTAL - CUMULATIVE	684	826	1,043	1,348	1,596	1,974	2,514	3,352	4,962	6,553	7,252		

DOE Cost Share - UAMPS: 23%

DOE Cost Share - Full Project: 27%

TOTAL CFPP FUNDING REQUIREMENTS (\$M)	COLA Prep & Design Completion					Site Prep & COLA Review		Construction			Startup & COD	TOTAL	FY20-FY29
	FY14-FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29		
NuScale SMR Design Certification & Commercialization [3]	679	114	140	160	97	15	-	-	-	-	-	1,205	526
UAMPS CFPP Siting, Licensing, and EPC	5	18	67	130	136	349	524	823	1,595	1,581	689	5,917	5,912
UAMPS CFPP Owners (including Licensing, Site Characterization, Water) [4]	5	11	23	61	64	77	73	55	99	73	76	616	611
UAMPS CFPP EPC	-	7	41	62	62	265	435	730	1,404	1,363	453	4,822	4,822
UAMPS CFPP EPC IDC	-	0	1	2	2	6	16	39	93	144	160	464	464
Standard COLA Content	-	-	2	6	7	-	-	-	-	-	-	15	15
TOTAL FUNDING REQUIREMENTS	684	132	207	290	233	364	524	823	1,595	1,581	689	7,122	6,438

**** All Estimates from FY21 through FY29 are Rough Order of Magnitude and are subject to future appropriation**

Note 1: Funding amounts do not include NuScale contributions towards the design and licensing of the SMR over and above cost share provided on DOE awards.

Note 2: UAMPS has not decided whether it will ultimately utilize DOE LG financing and obtaining such financing is not viewed as a necessity as other traditional debt financing options are viable and are currently at lower costs. UAMPS remains interested in pursuing DOE LG financing as it affords UAMPS financing optionality that is prudent to investigate given the first of a kind nature of the CFPP.

Note 3: Funding profile for FY 20-26 has been levelized based on an assumed flat funding profile in the outyears.

Note 4: Includes all scope currently funded under the CFPP siting and licensing program

Scenario Summary:
 Assumes unrestricted funding from DOE for all years
 Commercial Operation Date (COD) in 2028
 JUMP infrastructure complete in 2026

Carbon Free Power Project (CFPP)
 Scenario 1 - Best Schedule / Unconstrained Funding

SOURCES of FUNDS (\$M)	FY14-FY19	COLA Prep & Design Completion			Site Prep & COLA Review		Construction			Startup & COD	TOTAL	FY20-FY29
		FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28		
NuScale [1]	363	70	82	72	29	11	-	-	-	-	625	263
UAMPS	3	14	20	46	102	224	494	1,439	1,503	658	4,503	4,500
Debt Financing	3	14	20	46	102	224	494	1,439	1,503	658	4,503	4,500
DOE LG-Backed Loans [2]	-	-	-	-	-	-	-	-	-	-	-	-
DOE-NE Total	318	113	159	201	267	325	347	88	82	28	1,927	1,609
DOE-NE - NuScale SMR	316	70	82	72	29	11	-	-	-	-	578	263
DOE-NE CFPP (cost-share)	3	33	62	115	218	294	327	78	72	18	1,219	1,217
Program Contributions and Taxes	-	10	15	15	20	20	20	10	10	10	130	130
TOTAL - ALL SOURCES (w/o program contributions and taxes)	684	187	245	304	378	539	821	1,517	1,575	676	6,926	6,242
TOTAL - ALL SOURCES	684	197	260	319	398	559	841	1,527	1,585	686	7,056	6,372
TOTAL - CUMULATIVE	684	881	1,141	1,460	1,857	2,417	3,257	4,785	6,369	7,056		

DOE Cost Share - UAMPS: 21%

DOE Cost Share - Full Project: 26%

TOTAL CFPP FUNDING REQUIREMENTS (\$M)	FY14-FY19	COLA Prep & Design Completion			Site Prep & COLA Review		Construction			Startup & COD	TOTAL	FY20-FY29
		FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28		
NuScale SMR Design Certification & Commercialization [3]	679	140	163	143	58	21	-	-	-	-	1,204	525
UAMPS CFPP Siting, Licensing, and EPC	5	47	82	161	320	518	821	1,517	1,575	676	5,722	5,717
UAMPS CFPP Owners (including Licensing, Site Characterization, Water) [4]	5	37	34	29	53	77	73	55	99	73	534	529
UAMPS CFPP EPC	-	7	41	123	260	427	715	1,376	1,337	444	4,730	4,730
UAMPS CFPP EPC IDC	-	0	1	3	6	15	33	86	140	159	443	443
Standard COLA Content	-	2	6	7	-	-	-	-	-	-	15	15
TOTAL FUNDING REQUIREMENTS	684	187	245	304	378	539	821	1,517	1,575	676	6,926	6,242

**** All Estimates from FY21 through FY29 are Rough Order of Magnitude and are subject to future appropriation.**

Note 1: Funding amounts do not include NuScale contributions towards the design and licensing of the SMR over and above cost share provided on DOE awards.

Note 2: UAMPS has not decided whether it will ultimately utilize DOE LG financing and obtaining such financing is not viewed as a necessity as other traditional debt financing options are viable and are currently at lower costs. UAMPS remains interested in pursuing DOE LG financing as it affords UAMPS financing optionality that is prudent to investigate given the first of a kind nature of the CFPP.

Note 3: Funding profile for FY 20-26 has been leveled based on an assumed flat funding profile in the outyears.

Note 4: Includes all scope currently funded under the CFPP siting and licensing program

From: [Colbert, Christopher](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] RE: Advanced SMR Request Forecast
Date: Tuesday, July 21, 2020 5:45:49 PM

That's a bingo - thanks! Dwight and I are talking to Nora on Thursday. Chris

Christopher Colbert | NuScale Power | Chief Strategy Officer | O: (b) (6) | M: (b) (6)

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-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Tuesday, July 21, 2020 8:36 PM
To: Colbert, Christopher <ccolbert@nuscalepower.com>
Subject: RE: Advanced SMR Request Forecast

Chris,

Attached are the two scenarios that were provided to that House and Senate. We indicated that Scenario 1 was NuScale's and UAMPS' preference; however, if the annual budget needs were too high in Scenario 1, then Scenario 3 was created to try to balance the schedule needs for the project with the annual budget appropriation needs. Please let me know if this is what you were looking for.

Melissa

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

-----Original Message-----

From: Colbert, Christopher [<mailto:ccolbert@nuscalepower.com>]
Sent: Tuesday, July 21, 2020 7:52 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Subject: [EXTERNAL] Advanced SMR Request Forecast

Melissa,

I'll be talking to senate Appropriations this week and I would like to be sure we are synced up on what the department has presented for combined annual forecast of uamps and nuscale funding 2021-2030.

If possible, Can you send me the latest forecast you have shared with the Hill?

Thanks,

Chris

Sent from my iPhone - please excuse typos and autocorrect

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From: [Jackie Coombs](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] RE: UAMPS Town Hall Meeting - Slides and Recording
Date: Wednesday, July 22, 2020 1:31:48 PM
Attachments: [CFPP Cooling & Schedule Glenn Neises BnM 7-21-20.pdf](#)
[CFPP Financing Options Mike Mace PFM 7-21-20.pdf](#)
[CFPP History & Project Status Doug Hunter 7-21-2020.pdf](#)
[CFPP Risk Informed Model Bob Coward MPR 7-21-20.pdf](#)
[CFPP Town Hall Development Approach Mason Baker 7-21-20.pdf](#)
[DOE Support for CFPP Alice Caponiti 7-21-20.pdf](#)
[Fluor's CFPP Project Commitment Alan Boeckmann, Fluor 7-21-20.pdf](#)
[Nuclear-Energy CFPP John Wagner INL 7-21-20.pdf](#)
[NuScale's Commercial Outlook John Hopkins 7-21-20.pdf](#)

Melissa,

UAMPS greatly appreciates all your efforts in making the CFPP Town Hall meeting a success!

Attached are the presentations.

The link to the recording:

(b) (6)

Password: (b) (6)

Due to the size of this email, please confirm your receipt.

Jackie Coombs
Manager of Corporate and Member Relations
Utah Associated Municipal Power Systems
155 North 400 West, Suite 480
Salt Lake City, Utah 84103
Phone: (801) 214-6402
Cell: (b) (6)

-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Wednesday, July 22, 2020 1:59 PM
To: Jackie Coombs <jackie@uamps.com>
Subject: UAMPS Town Hall Meeting - Slides and Recording

Hi Jackie,

Thank you for all your efforts to coordinate everything for the Town Hall Meeting yesterday. I think it went well.

I was wondering if it would be possible to get a copy of the recording that was made as well as copies of the slides the individual presenters used during the Town Hall Meeting. If it becomes a challenge to transfer files due to size limits, I have a file sharing program we can use to transfer the data.

Thanks again for all your help!

Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

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UAMPS - CFPP Cooling Technology and Schedule

UAMPS

July 21, 2020

Agenda

▶ Cooling Technologies

- UAMPS Cooling Technologies and Analysis
- LCOE Results
- Water Availability/Cost Impacts

▶ Schedule

- Major Milestones
- Overall Schedule



Cooling Technologies

~~▶ Once Through Cooling~~

- ~~• Lake/River & Surface Condenser~~

▶ Wet Cooling

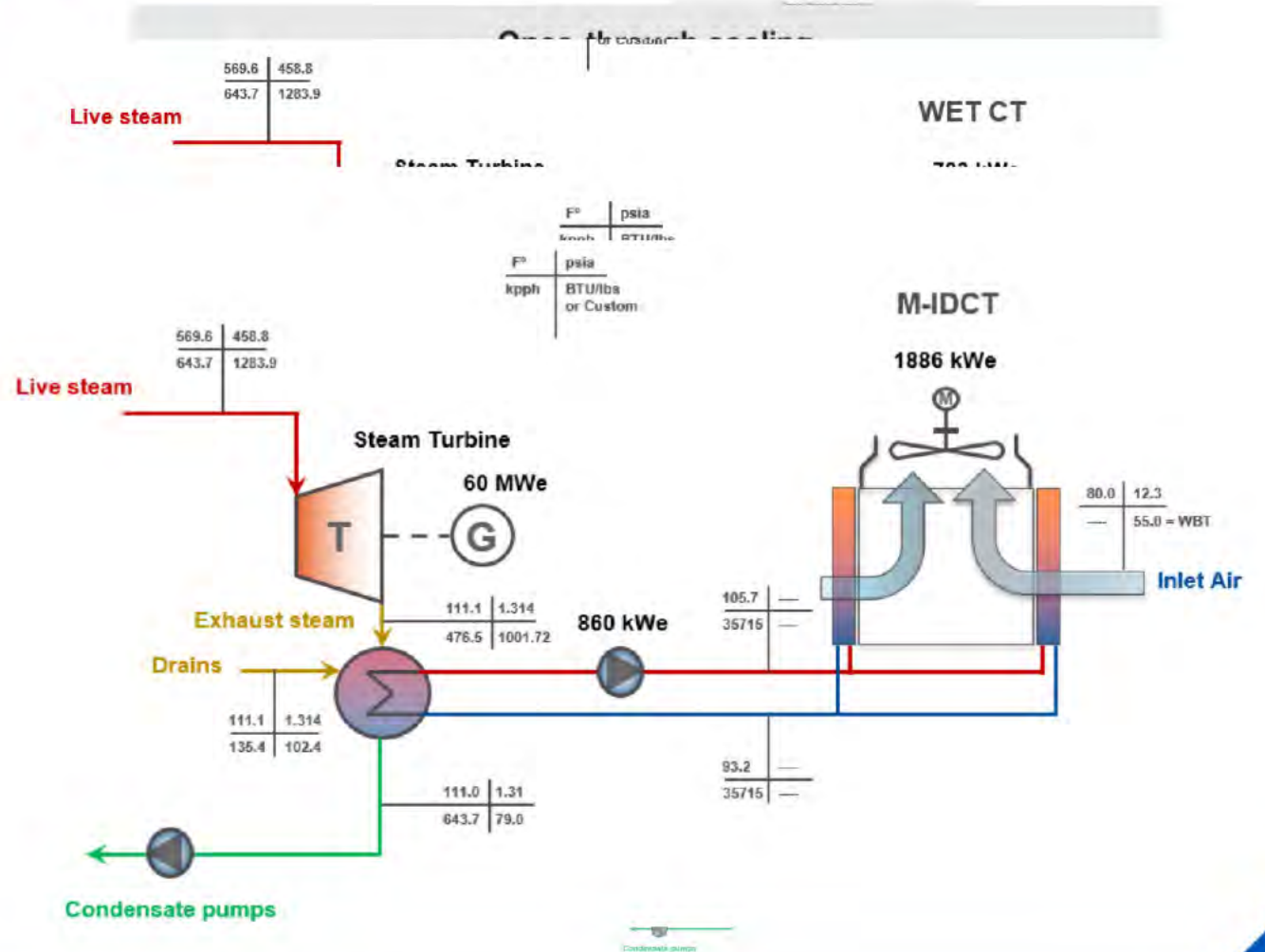
- Cooling Tower & Surface Condenser

▶ Dry Cooling

- Air-Cooled Condenser (ACC)

▶ Hybrid Cooling

- Mechanical Indirect Dry
- Cooling Tower (M-IDCT)



Cooling Analysis

► Analysis History:

- Power Engineers - Engineering Study Report – December 2018
 - Net Present Value (NPV) Evaluation Results
- SPG Dry Cooling Report – September 2019
 - NPV and Levelized Cost of Electricity (LCOE) Evaluation Results
 - Dry Cooled Option (ACC) approximately \$0.16 lower LCOE than Wet Cooled
- Burns & McDonnell Review and Assessment – June 2020
 - Developed Risk Analysis considering water/environmental and LCOE impacts



Cooling Technologies

	Water Required	Water Usage	Capital Cost	Plant Efficiency	Environmental Impact
Once Through Cooling					
Wet Cooling Tower	OK Performance	Bad Performance	Good Performance	Good Performance	OK Performance
Dry Cooling (ACC)	Good Performance	Good Performance	OK Performance	OK Performance	Good Performance
M-IDCT	Good Performance	Good Performance	Bad Performance	OK Performance	Good Performance

	Good Performance
	OK Performance
	Bad Performance

LCOE Summary

► Comparison of Cooling Systems LCOE with Contingency

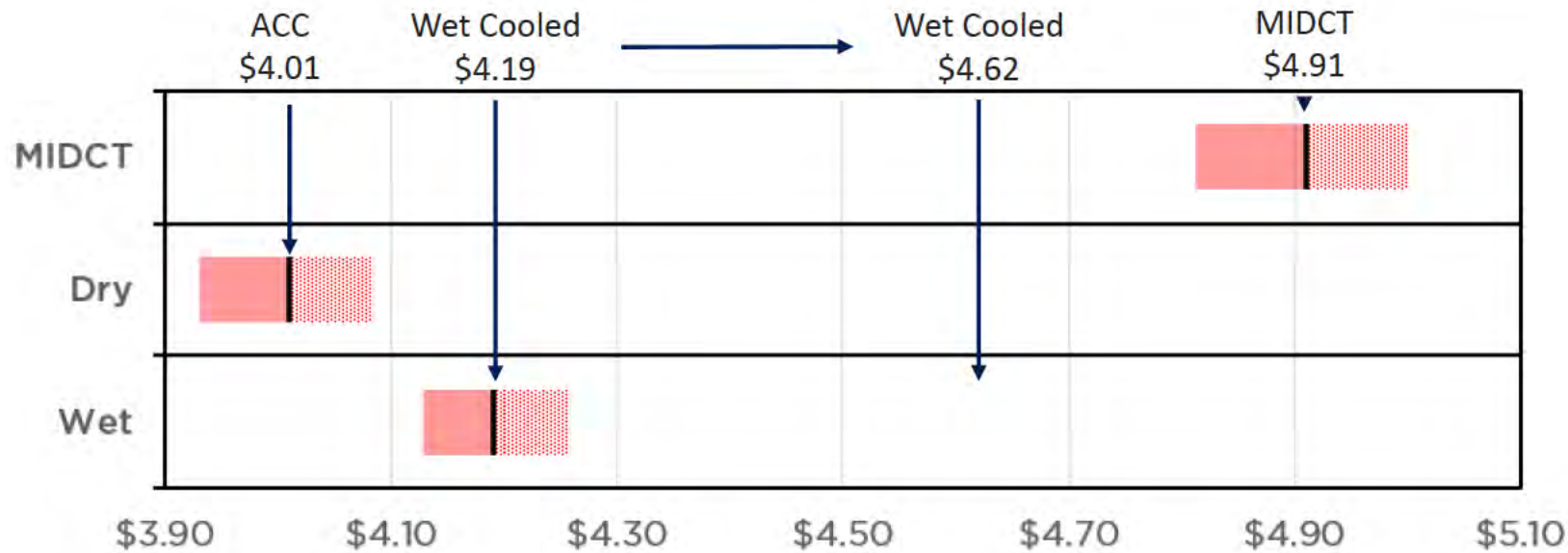
	Evaluated LCOE	LCOE + Lower Bound Contingency	LCOE + Mean Contingency	LCOE + Upper Bound Contingency
ACC LCOE	\$3.80	\$3.93	\$4.01	\$4.08
Wet Cooled LCOE	\$4.06	\$4.13	\$4.19	\$4.26
MIDCT LCOE	\$4.71	\$4.81	\$4.91	\$5.00



Sensitivity Analysis – Increased Water Rights Costs

▶ Cooling Systems LCOE sensitivity comparison

- Water Right Costs increased to \$3,000/acre-feet



Cooling Conclusions

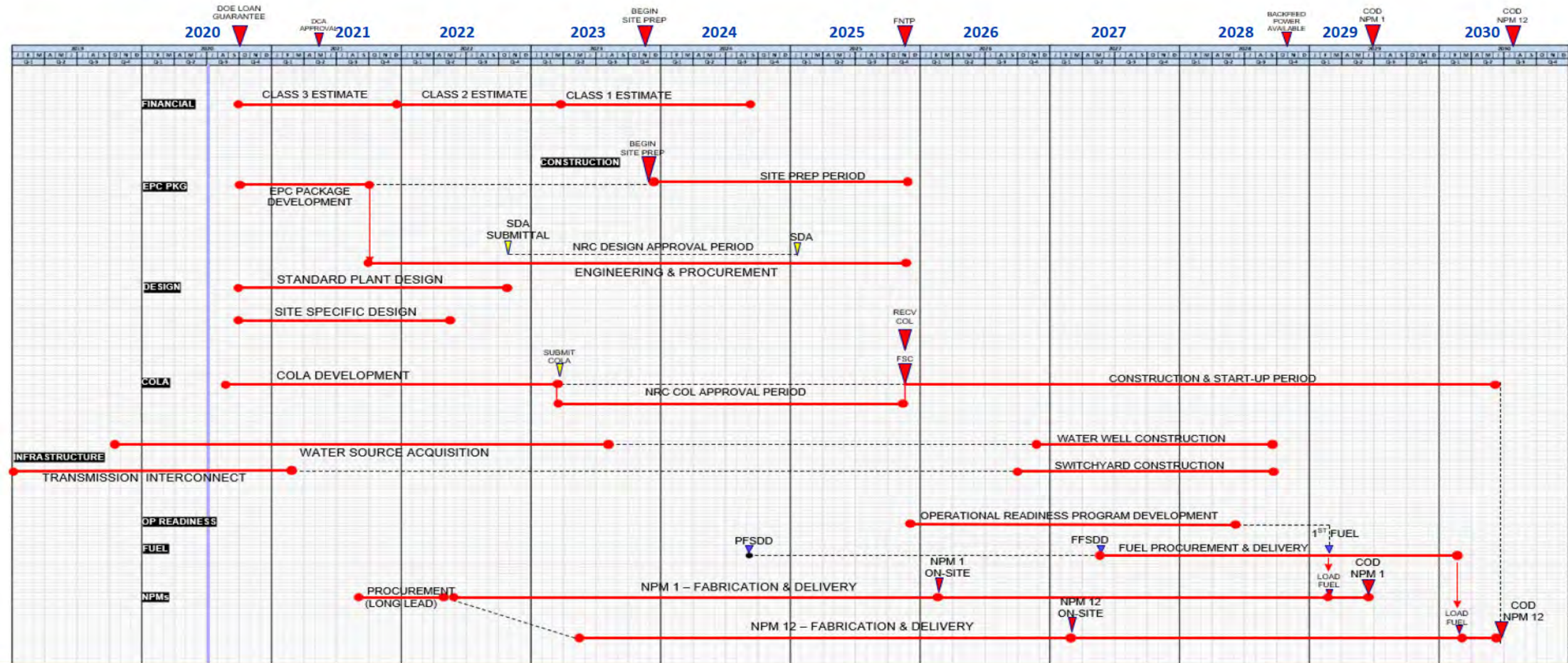
- ▶ LCOE is the evaluation criteria, consistent with other economic evaluations for CFPP.
- ▶ ACC has a lower LCOE, but within margin of error of the analysis.
- ▶ Given the uncertainty around water availability, cost, and the environment, ACC is the preferred and less risky option.

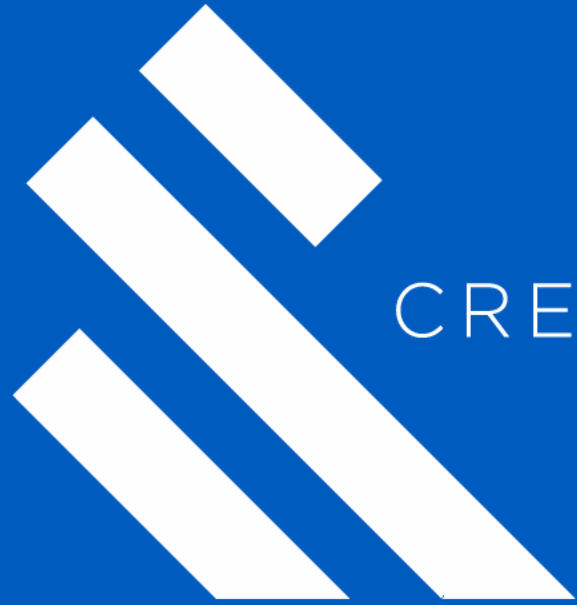


SCHEDULE - CFPP Project Milestones

- ▶ Aug 2020: Core Boring Starts
- ▶ Sep 2020: DOE Agreement, Fluor & NuScale Development Agreements
- ▶ Oct 2020: COLA and Site-Specific Design Starts
- ▶ Mar 2023: COLA NRC Submittal
- ▶ Nov 2023: Site Preparation Starts
- ▶ Nov 2025: COLA NRC Approval
- ▶ Nov 2025: Final Notice to Proceed
- ▶ Nov 2025: Start Safety Related Concrete/Construction
- ▶ Feb 2026: 1st Nuclear Power Module On-Site/Installation Starts
- ▶ Jun 2029: 1st Nuclear Power Module Commercial Operation Date
- ▶ Jun 2030: 12th Nuclear Power Module Commercial Operation Date

CFPP Overall Schedule





CREATE AMAZING.



Utah Associated Municipal Power Systems

CFPP Town Hall Meeting

July 21, 2020

PFM Financial Advisors

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Suite 4500
Los Angeles, CA 90017

www.pfm.com



PFM's CFPP Team

Mike Berwanger

Managing Director

- ❑ Western Region Manager
- ❑ Lead for majority of PFM's West coast power clients
- ❑ Previously served UAMPS as an investment banker

Mike Mace

Managing Director

- ❑ Public Power Group Manager
- ❑ Lead for many of PFM's largest public power clients
- ❑ FA to MEAG for @20years and lead on Vogtle

Eric Smith

Senior Managing Consultant

- ❑ Day-to-day on many of PFM's largest public power clients
- ❑ Led Quantitative efforts for MEAG Vogtle



Public Power Project Finance

- ◆ UAMPS will be using a tried and true financing structure that has been employed to construct large scale, joint-action power projects for over 50 years.
 - Joint action to achieve efficiencies and scale
 - Participant off-taker utilities from large to small and everywhere in between that enter long-term, take-or-pay contracts for all project output
 - Construction and long-term financing secured by revenues generated by output sold pursuant to contracts.
 - Financing credit strength is largely a function of off-taker utility credit strength and contract strength.

- ◆ Rating Agencies, Banks and Investors are VERY familiar with this structure

- ◆ PFM as the #1 ranked public power financial advisor, has worked with the majority of joint action agencies in the US



MEAG Plan of Finance

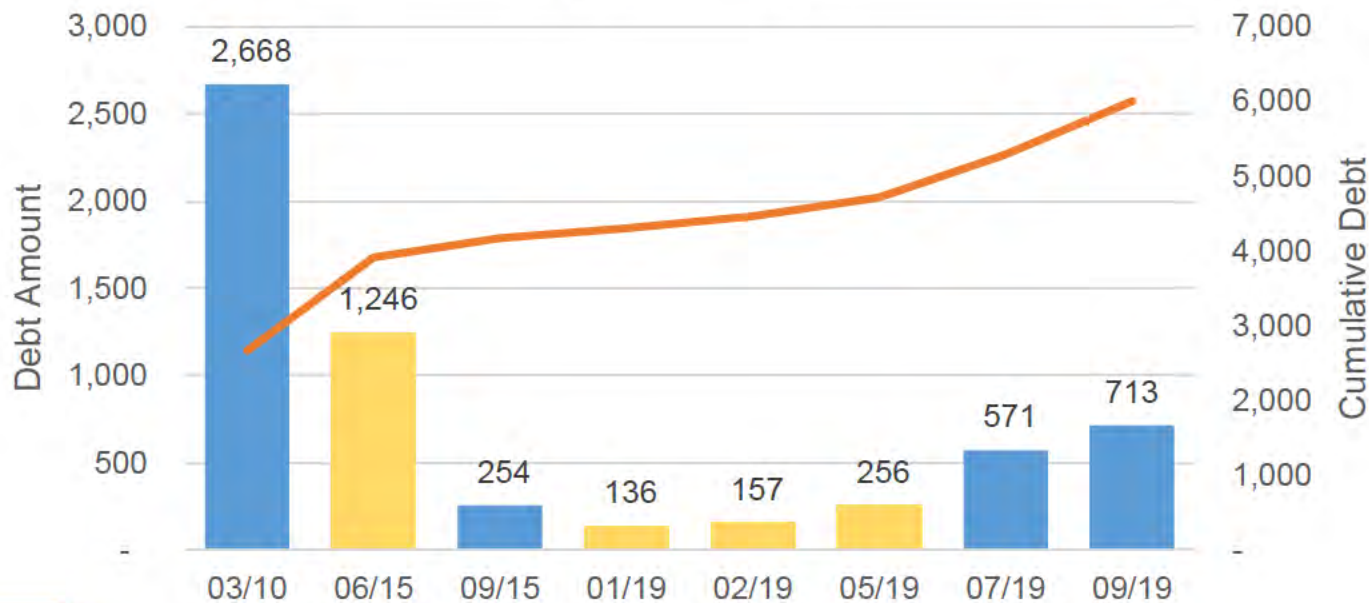
- ◆ PFM has served as financial advisor to MEAG Power throughout its ongoing construction and financing of Vogtle Units 3&4 AP1000 Nuclear Reactors
 - MEAG is 22.7% owner in Vogtle Units 3&4 which represents approximately 500MW generating capacity. Other owners include Georgia Power with 45.7%, and Ogelthorpe Power with 30.0%
 - MEAG has entered into PPAs with both JEA and PowerSouth for a portion of their power for the first twenty years of commercial operation of each unit.
 - Expected commercial operation dates of November 2021 and November 2022
- ◆ PFM has advised MEAG on over \$6 billion of nuclear financings, including:
 - \$2.6 billion of Build America Bonds
 - \$1.6 billion of long-dated tax-exempt bonds
 - \$1.8 billion of DOE Loan advances
- ◆ The DOE financings required extensive negotiations for many elements of the then new Loan Guarantee Program
- ◆ The DOE Loans were estimated to produce over **\$900 million in NPV savings** versus public market debt at the time of issuance



Summary of MEAG Power Plan of Finance

- MEAG Power has utilized several financing alternatives throughout Vogtle construction
 - Public Market Debt Financings (blue bars) included Build America Bonds with federal tax subsidies and long-dated tax-exempt bonds (final maturity > 45 years)
 - DOE Loans (yellow bars) that included fixed and variable-rate notes with a maximum maturity of 30 years
 - DOE Variable-rate notes allow MEAG to “hedge” interest expense with interest earnings on invested funds

**MEAG Power Vogtle Units 3&4 Debt Financings
(in millions)**



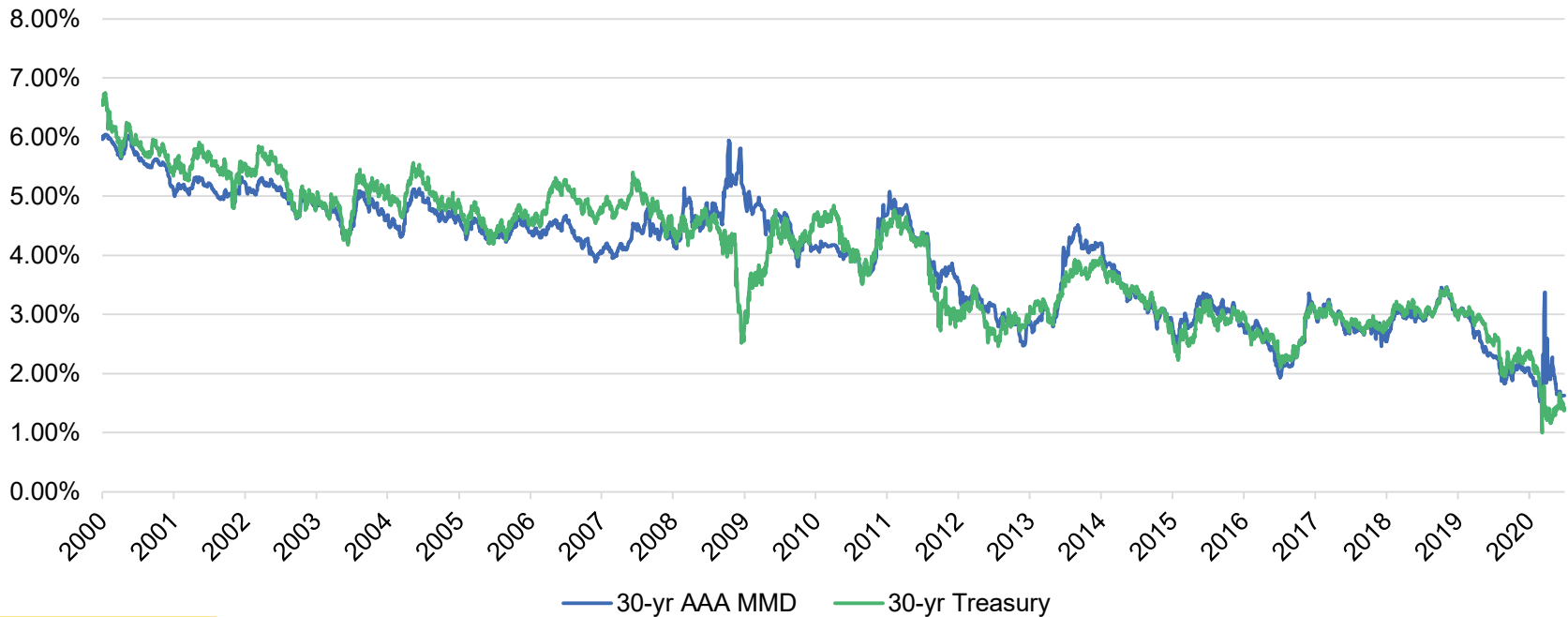
*MEAG also utilized a limited amount of interim/bridge financing as needed



Interest Rates and the Plan of Finance

- ◆ Borrowing cost has a very meaningful impact on the output cost of the CFPP
- ◆ Interest rates are near all-time record lows today
- ◆ But have been at significantly higher levels in the past
- ◆ A range of interest rates will be analyzed throughout the CFPP development/funding process

30-year AAA MMD and 30-year Treasury Rate Since 2000





Interest Rates and the Plan of Finance

- ◆ The CFPP will be funded over several years using
 - Taxable and tax-exempt tools
 - Short and long term products
 - And possible opportunities not currently provided for, but legislatively created in the future (e.g. Build America Bonds)

Summary of July 1, 2020 vs Historical (since January 2000) Municipal Market AAA Indices

Statistic	20-Yr Bond	30-Yr Bond
July 1, 2020	1.43%	1.63%
Historical Average	3.67%	3.89%
Minimum	1.19%	1.38%
Maximum	5.94%	6.04%

Summary of July 1, 2020 vs Historical (since January 2000) US Treasury Rates

Statistic	20-Yr Bond	30-Yr bond
July 1, 2020	1.20%	1.43%
Historical Average	3.91%	4.00%
Minimum	0.87%	0.99%
Maximum	6.97%	6.75%

- ◆ LCOE and Budget & Plan of Finance models have tested a range of interest rates assumptions
 - LCOE Model version targeting \$55/MWh requires ~4+% overall borrowing cost
 - Achievable under current market conditions, and reasonable given **recent** history



CFPP Plan of Finance

- The CFPP Plan of Finance covers a lengthy period of time and will incorporate the potential for a variety of financing tools to meet objectives at various development stages
- COLA Development funding is expected to be met by a blend of Line of Credit (in discussions with a bank) and DOE cost share/Loan
 - Bank Loan rate assumed at 4.40% with “undrawn” fee of 1% - **current bank loan rates are under 2%**
- COLA Review funding needs are expected to be met with a range of short-term financial tools
 - Line of Credit
 - Short term notes
 - Commercial paper
 - Other as may become available
- Post FNTF funding needs are expected to be met with a range of long-term financial tools
 - DOE Loan if available
 - Long-dated tax-exempt (and potentially taxable) CFPP Bonds (fixed rate and variable rate)
 - Other products as may become available



Disclosures

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CFPP HISTORY AND PROJECT STATUS

JULY 21, 2020

Presented by: Doug Hunter

RATIONAL

Replacement of existing carbon fired generation with non-carbon sources,

Providing for future load growth needs, and

While assuring economical cost stability with high reliability and resiliency.

RESOURCE OPTION ANALYSIS

-
- Natural Gas fired generation
 - GHG emissions
 - Solar & Wind
 - Off-peak capacity
 - Intermittent energy source
 - Storage
 - Short duration
 - Energy loss
 - Other

- Large reactors
 - 1,000+ MW
 - Transmission upgrades
 - Inflexible operation
- Small modular reactors
 - 300- MW
 - No transmission upgrades
 - Flexible operation

NUCLEAR



SITE

NUCLEAR REGULATORY COMMISSION

- Design Certification
 - Technology
- Combined Construction and Operating License
 - Site characterization
 - Construction process
 - Operating procedures

CONTRACTS

- Power Sales Contract between UAMPS and each of the Participants,
- U.S. Department of Energy Multi-Year Award between UAMPS and the DOE,
- Development Cost Reimbursement Agreement between UAMPS and NuScale, and
- Engineering, Procurement and Construction (EPC) Development Agreement between UAMPS and Fluor Corporation.

CONCLUSION

-
- Carbon Free Power Project provides a
 - Dispatchable capacity & energy source
 - Ramp 20% to 100%
 - Permutations of 12 generators
 - Green house gas hedge
 - Avoids restrictions and penalties associated with GHG
 - At cost of fossil fuel generation
 - Long term stability
 - Up to 60 years per NPM
 - Over 100 years BOP
 - Stable rates
 - 40 year LCOE @ \$55/MWh



Carbon Free Power Project

*Utilizing a Risk
Informed Model*

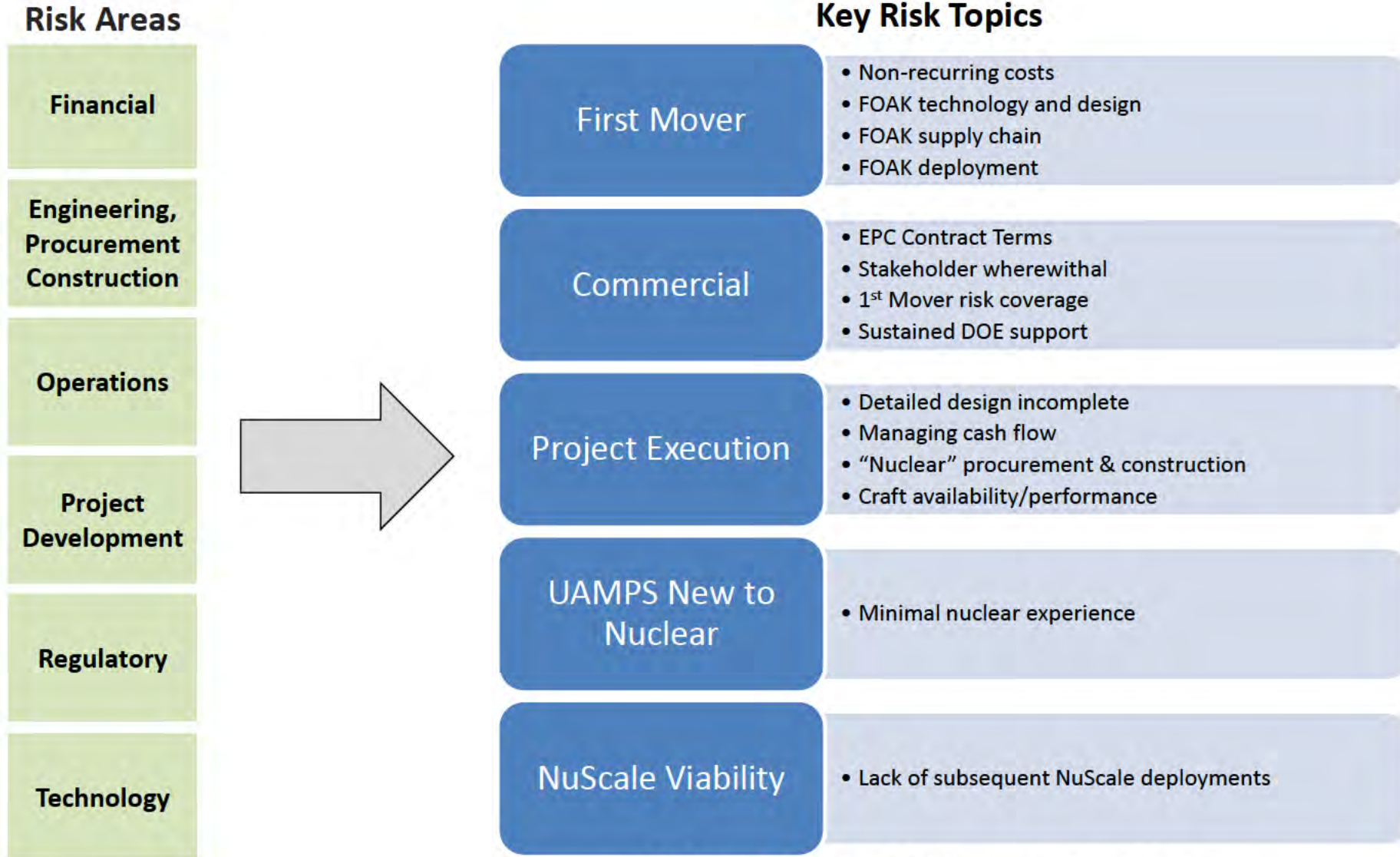
July 21, 2020

Risk Management & Mitigation

- Being a ~\$5B nuclear power plant EPC project, successful delivery of the CFPP requires proactive and effective risk management
 - See project risks
 - Characterize/understand risks
 - Discern and prioritize risks
 - Take action and mitigate risks
- Preliminary Risk Management Program developed as a tool for project leadership
 - Integrated Risk Management Team approach for risk management, led by UAMPS
 - Three primary tools:
 - Risk Register
 - Risk-Informed LCOE Model
 - Schedule Risk Analysis (later)



CFPP Risk Landscape



**Risk Register contains >50 risks, these are key risk topics*

Mitigation Strategies

Manage Costs, Contracts, and Finances

Limit at-risk UAMPS spending

Strengthen DOE engagement and support

Phased Project Plan with incremental risk reduction and off-ramps

Utilize risk-informed cost model

Accelerate EPC Term Sheet

Advance work to reduce EPC uncertainties

Rigorous Execution Plan and FOAK Mitigation

Understand, embrace, address prior lessons learned

Best-in-class contract support to complement UAMPS project team

Risk-informed graded approach for oversight of Fluor, NuScale, suppliers

Focus on on early activities that can impact downstream work/risks

Rigorous maturation and testing programs for FOAK scope

Close monitoring of related NuScale activities (DCA, SDA)

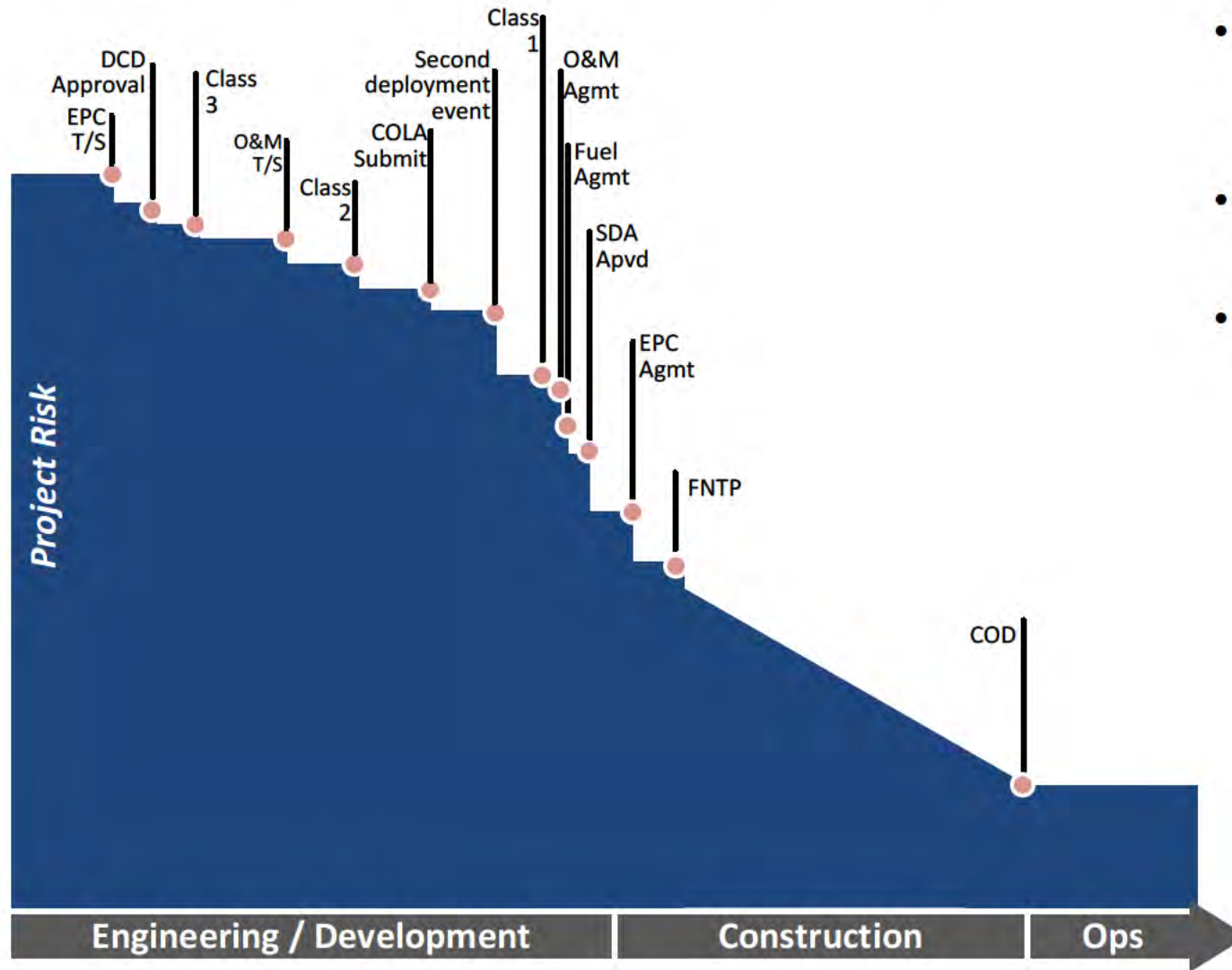
Ensure NuScale Viability

Form NuScale Customer Working Group under UAMPS Leadership

Seek fleet O&M shared services model

Include viability requirements in project agreements

Incremental Risk Reduction Concept (notional)

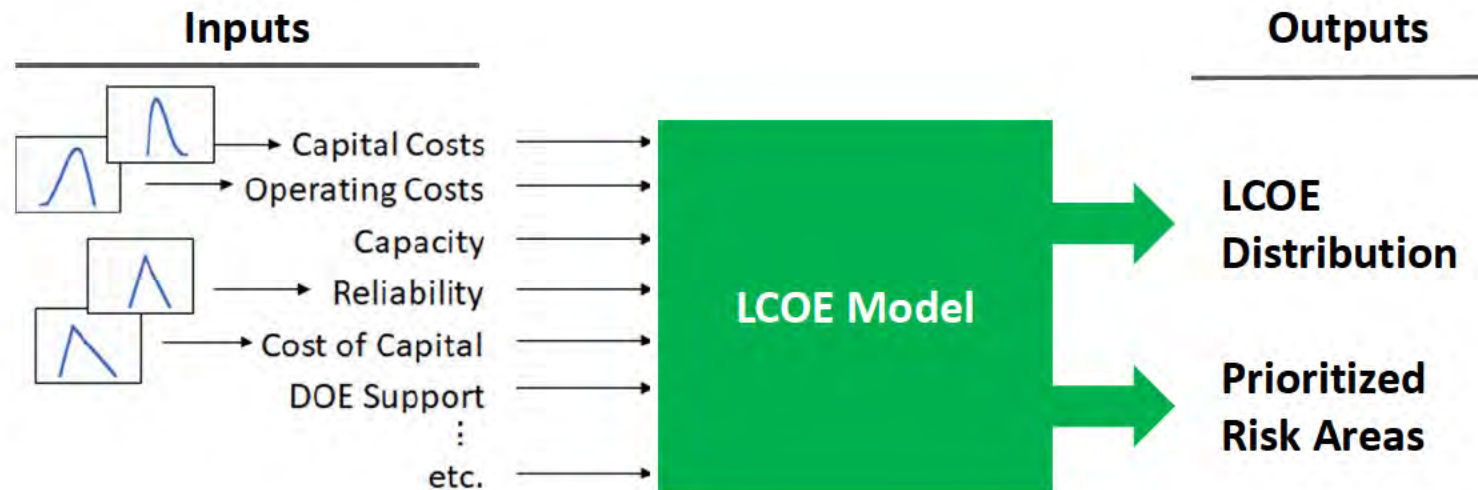


- Risks reduced by achieving key milestones during development period
- DOE support in early phases is critical
- UAMPS funding increases as risks reduce

Risk reduction occurs because of achieving milestones, not simply the passing of time

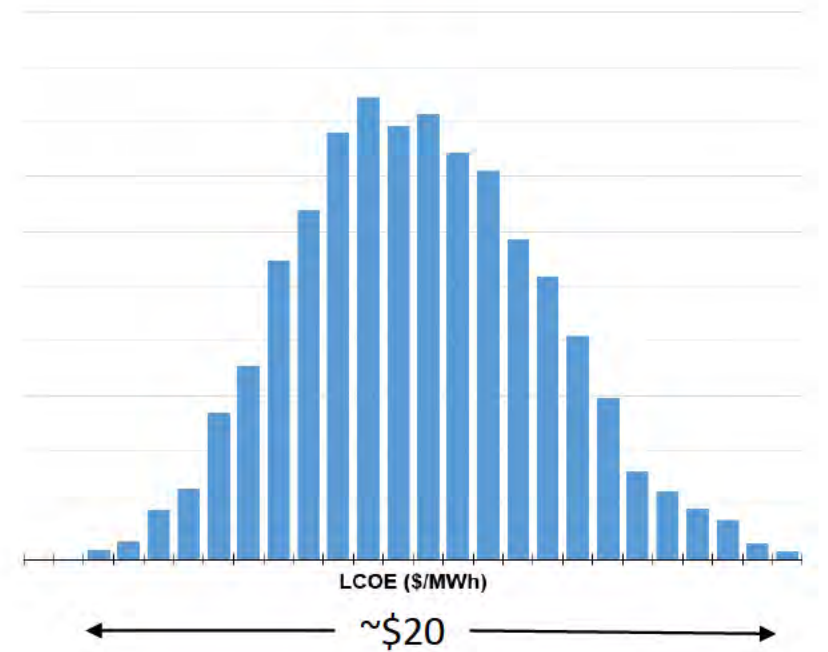
Risk-Informed LCOE Model

- Quantifies risks and areas of highest impact to LCOE
- Impact to LCOE is driven by uncertainties in cost estimate (due to questions, risks, and opportunities)
- Risk-informed LCOE model results/insights used to focus project efforts to mitigate risks and reduce uncertainty
- Supplements single-point LCOE model used for ECT

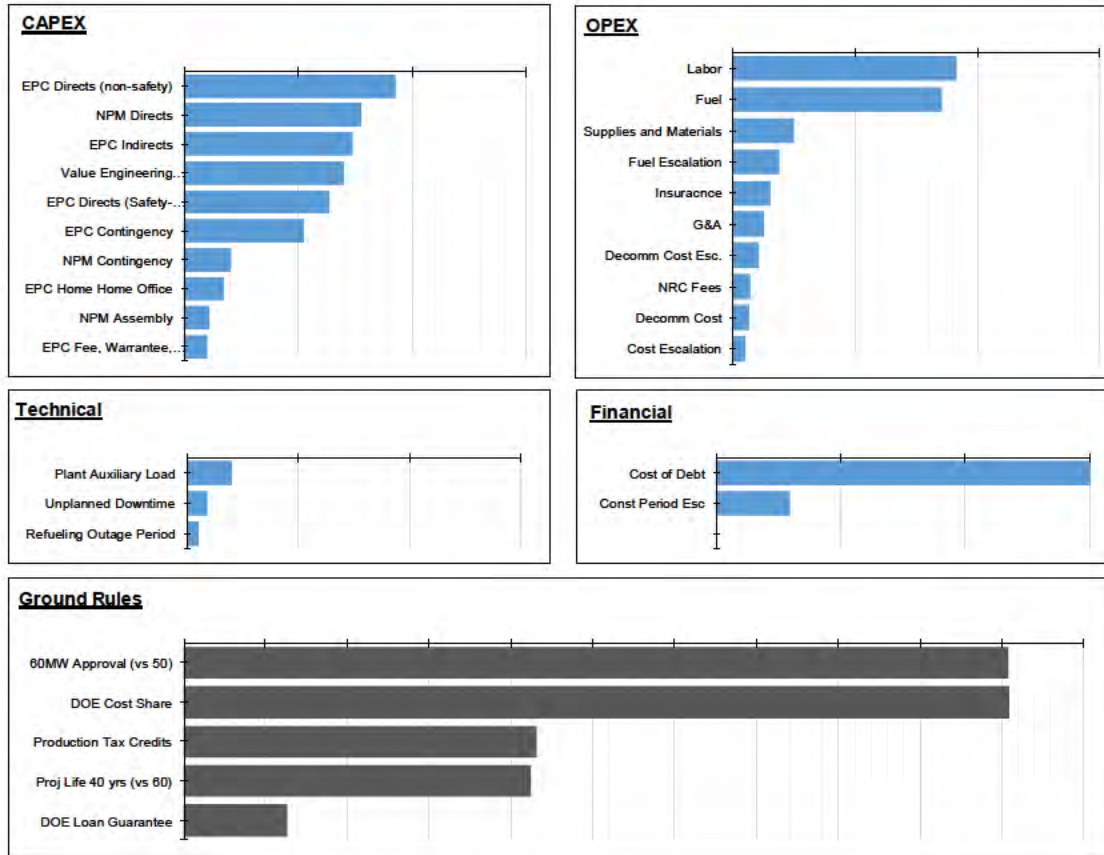


Risk-Informed LCOE Model Insights | Range

- As expected at this stage of project development and design, risk-informed results show wide range of potential LCOE results
- Many inputs to cost estimate have uncertainties of -10% / +30%
- Continuous actions needed to:
 - Focus project priorities and attention
 - Reduce uncertainty ranges
 - Identify cost reductions



Risk-Informed LCOE Model Insights | Drivers



\$100M of CAPEX ≈ ~\$1/MW-hr
\$10M/yr of OPEX ≈ ~\$2/MW-hr

Continuous actions needed to de-risk on multiple fronts:

- CAPEX
- OPEX
- Financial / Funding
- Regulatory

Near term focus needed to identify funding to mitigate threats to cost increases (i.e., DOE cost sharing)

Take-Aways

- A very challenging FOAK project, both establishing project finances and ensuring predictable project execution
- DOE award finalization is absolutely critical
- Mitigation plans developed to address project risks
 - Cost and EPC Terms addressed primarily through DOE support and accelerating EPC Term Sheet
 - Execution and FOAK technology risks addressed through aggressive risk management and enhanced oversight
 - NuScale viability and subsequent deployment risk addressed through increased engagement with other potential NuScale customers

This project can be delivered successfully

To achieve that result, aggressive and effective risk management is required along with important work to firm the project foundation



DEVELOPMENT APPROACH TO THE CARBON FREE POWER PROJECT

JULY 21, 2020

DISCUSSION ITEMS

- Discuss CFPP Development Approach through Four Contracts
 - Provide an understanding of why all four agreement are necessary before further CFPP Development Work proceeds through the Revised Budget and Plan of Finance

DEVELOPMENT APPROACH BULLETS NOT CANNONBALLS

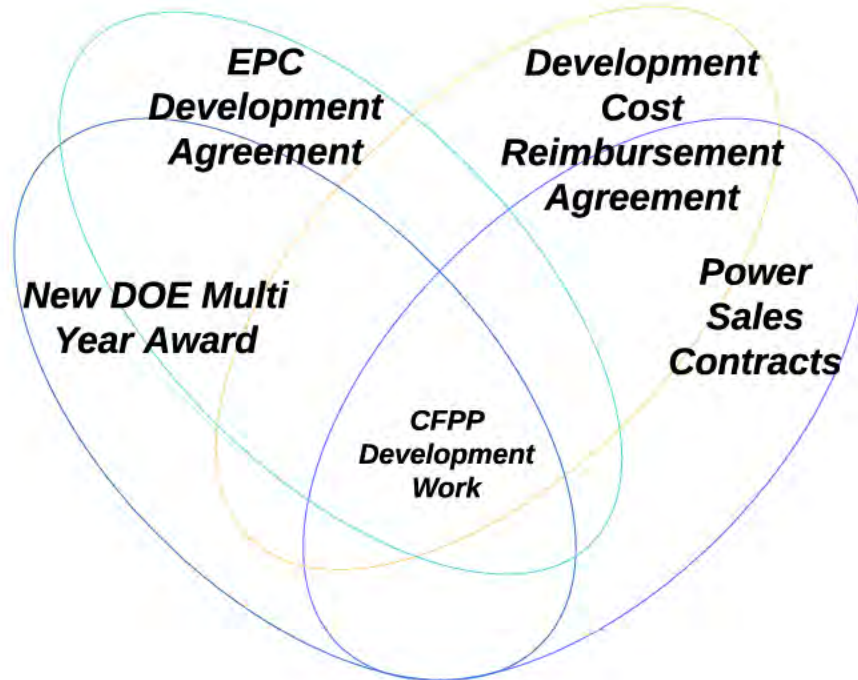
- Reality= CFPP is a first of kind nuclear project that will require a very disciplined development approach by all the project partners (UAMPS, NuScale, Fluor, and DOE) to be successful
- Work to Date=Identification of Key Risk Items Standing in the way of Success
- Success=the ability to deploy the CFPP at \$55/MWh
 - Primary Economic Development Metric=Levelized Cost Of Electricity (LCOE) estimate for CFPP based on Project Cost Estimates
- Incorporate Lessons Learned from recent nuclear reactor projects and other megaprojects
 - Engineering design complete before construction
 - Mutually beneficial contractual structure
 - Integrated team
 - Owner's engineer
 - Early and often Nuclear Regulatory Commission engagement

DEVELOPMENT PHILOSOPHY DURING LICENSING PERIOD

- #1 Objective=Derisk the CFPP by targeting identified risks to reach an informed decision on UAMPS ability to deploy the CFPP at the Price Target \$55/MWh (2018\$) via a Definitive Budget and Plan of Finance that will be considered by each Participant's governing body
- Two Primary Areas of Risk:
 - NRC Licensing
 - Project Cost Estimates

CFPP Development Contracts

Heath Swain | July 18, 2020



1. Power Sales Contract (Effective July 2019)
 2. EPC Development Agreement & Development Cost Reimbursement Agreement to be executed in August 2020
 3. New DOE Multi Year Award Anticipated to be Finalized early September 2020
- ❖ Items # 2 & # 3 Must be Finalized Before Revised Budget and Plan of Finance can become effective

POWER SALES CONTRACTS OVERVIEW

- Tried and True Contractual Relationship between UAMPS and Participating Members in any given Project
 - Allows for UAMPS to conduct financings for development, construction, operations, and decommissioning
- CFPP Power Sales Contract is novel due to the phased development structure that provides for contractual off-ramps at predetermined points during the CFPP Development
 - Reviewed by the Legal Committee, including PMC Representatives, city attorneys and outside counsel
 - Flexibility to address certain development unknowns
 - Lay-off Contracts
 - Cost Transparency to the Participants through Licensing Period Phases by setting Maximum Development Costs that can be expended during a Phase

PROJECT MANAGEMENT COMMITTEE (PMC)

- PMC has complete decision-making authority, including:
 - approve each Budget and Plan of Finance and all Project Agreements,
 - Manage Development Work Consistent with Maximum Development Cost for a Phase
 - review of the results of each run of the Economic Competitiveness Test,
 - review and authorize all financings,
 - review and determine whether to submit the CFPP's NRC License Application (aka COLA), and
 - determine whether the Project is feasible or whether it should be terminated or suspended
- Certain decisions are required to be made by a Super-Majority Vote (75% by number and Entitlement Share)

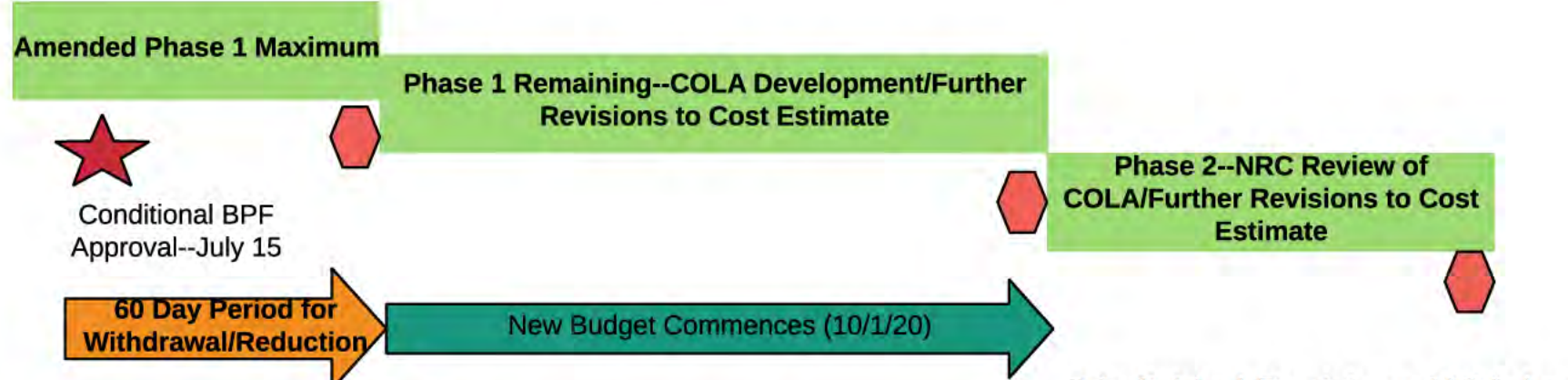
PARTICIPANT WITHDRAWAL/REDUCTION TERMS

- Withdrawals/reductions are effective on the last day of then-current phase of the Licensing Period.
- A withdrawing Participant has no liability for the repayment of its Entitlement Share of Development Costs incurred or financings undertaken after the effective date of its withdrawal

PARTICIPANT WITHDRAWAL TERMS (CONT.)

- A withdrawing Participant remains liable for the repayment of its Entitlement Share of Development Costs incurred or financings undertaken before the effective date of its withdrawal:
 - Repayment must be made within 12 months after the effective date of a Participant's withdrawal

CFPP Licensing Period



 } Denotes a Participant Off Ramp

- 3 Individual Participant Withdrawal/Reduction Options
- PMC Management of Development Work Between 3 Participant Withdrawal/Reduction Options

NEW DOE MULTI YEAR AWARD

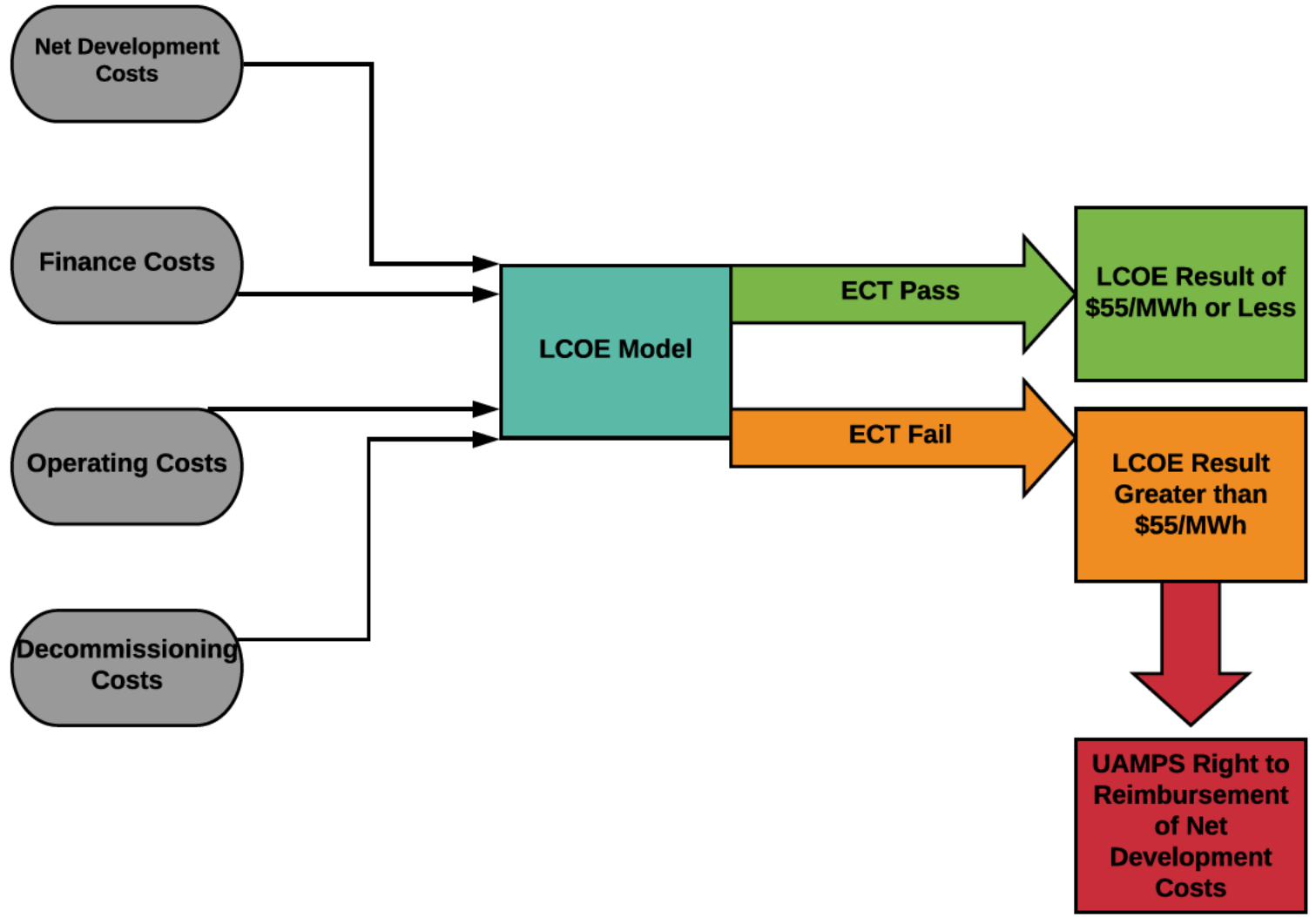
- In process with DOE, anticipated to be finalized in Early September 2020
- Through CFPP Commercial Operation Date (COD)
- Total DOE Support=~\$1.4 Billion
 - Massive increase from current award that has total DOE support at \$60M
 - This level of cost sharing necessary to achieve \$55/MWh Price Target—will be illustrated when we discuss the LCOE model inputs
 - DOE support for JUMP has been reallocated into \$1.4 Billion of cost sharing—better approach to derisking the CFPP
- DOE Cost Share % varies from year to year through commercial operation date
 - DOE cost share=~23% of Total Project Costs
 - Higher DOE % through FNTF to construction
 - DOE % decreases post FNTF to construction through COD
 - The decrease of these percentages of DOE support coincide with achieving derisking milestones
- Will be subject to annual appropriations
 - Strong Bi-Partisan & Bicameral Support for Nuclear

ENGINEERING, PROCUREMENT, AND CONSTRUCTION (EPC) DEVELOPMENT AGREEMENT

- Parties=Fluor & UAMPS
- Scope of Work: Fluor to revise the Project Cost Estimate for the CFPP through site specific engineering
 - Currently the CFPP is at a Class 4 engineering estimate (Class I before decision to construct)
- EPC Development Agreement is envisioned to serve as the initial agreement between the Fluor and UAMPS
 - Subsequent contracts → EPC Term Sheet → Final EPC Contract that will govern construction of the CFPP

DEVELOPMENT COST REIMBURSEMENT AGREEMENT

- Parties=UAMPS & NuScale
 - Related Agreement= EPC Development Agreement (Parties=UAMPS & Fluor)
- Purpose= Reimbursement Agreement serves as insurance policy should the Project Cost Estimate (PCE) for the CFPP exceed Price Target (\$55/MWh) by running the Economic Competitiveness Test
 - Benefit to the Participants= Reimbursement from NuScale Reduces Out of Pocket Exposure—Maximizes the Value Proposition of Developing the CFPP as Option—> Reimbursement Agreement reduces the Risk of Developing this Option
 - First & Most Significant Layer of Risk Reduction is the DOE Support through the New Multi Year Award
- Scope/Term: Covers the entire Development Phase of the CFPP—Reimbursement Agreement ends at UAMPS decision to construct



CFPP Summer of 2020 Schedule

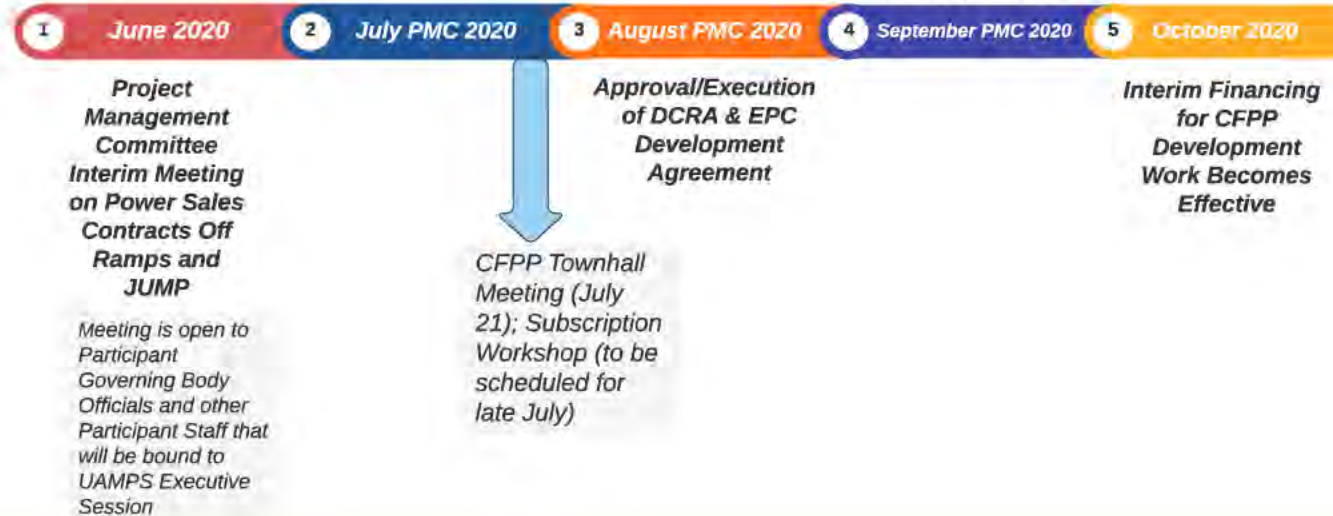
Version: 06/11/2020

Conditional Approval of New Budget and Plan of Finance

Approved by PMC on July 14 & Board on July 15th; 60 day withdrawal/reduction period commences on July 16th

New Budget and Plan of Finance Becomes Effective Upon PMC Determination that Four Conditions Subsequent Satisfied

Participant withdrawal/reduction period ends September 15, 2020; DOE Award to be made Sept. 6, 2020



TAKEAWAYS

- Four Development Contracts Enable the CFPP to be developed a way that minimizes Participant cost exposure while more cost certainty is achieved through Development Work
- Parties (DOE, UAMPS, NuScale, and Fluor) have spent the last five years developing this framework in a manner that recognizes each Parties respective limitations while still enabling a development approach that can allow for the successful deployment of the CFPP



DOE Support for CFPP

July 21, 2020

Alice Caponiti

Deputy Assistant Secretary
Office of Reactor Fleet and Advanced Reactor Deployment
Office of Nuclear Energy

DOE Office of Nuclear Energy – Mission Pillars

- Advance nuclear power to meet the nation's energy, environmental, and national security needs.
- Resolve technical, cost, safety, security and regulatory issues through research, development and demonstration.

Existing Fleet



Advanced
Reactor
Deployment



Fuel Cycle
Infrastructure



Global
Competitiveness



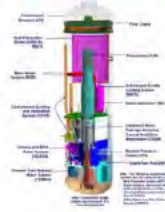
The U.S. Advanced Reactor Landscape is Very Promising

- Over 60 companies and research institutions are working to develop innovative nuclear reactor designs to meet future energy needs
 - Near-term deployment: Light water-cooled Small Modular Reactors (SMR) (e.g. NuScale)
 - Mid- to long-term deployment: Sodium-, gas-, lead-, molten salt-cooled designs
 - Microreactors

Advanced Light Water Reactors



GE-Hitachi
BWRX-300



SMR LLC
SMR-160



NuScale Power
SMR

Microreactors



Oklo, Inc
Aurora



Westinghouse Nuclear
eVinci

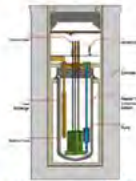
Fast Reactors



GE Hitachi
PRISM



TerraPower
TWR



Advanced Reactor
Concepts LLC
ARC-100

Gas Reactors



X-Energy
Xe-100

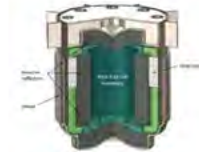


Framatome
SC-HTGR



Terrestrial Energy
USA IMSR

Molten Salt Reactors



TerraPower
MCFR



Elysium USA
MCSFR



Kairos
Power
UCB PB-
FHR

DOE Funding Programs for Reactor Development and Demonstrations

- Advanced SMR Research and Development (R&D) Program (Initiated in 2019)
 - Domestic development of light water SMRs
- DOE Advanced Reactor Demonstration Program (ARDP) (New)
 - Demonstrate multiple advanced reactor designs at various stages of technological maturity
 - Construction of two demonstration reactors within five to seven years (following award)
 - Solicitation underway; selections to be announced in Fall 2020
- Any entity that receives FY 2020 funds of more than \$200,000 under the Advanced SMR R&D program is not eligible to receive FY 2020 funds from within the ARDP (FY 2020 Congressional appropriation language)
- NuScale development activities are currently supported through the Advanced SMR R&D program

Advanced SMR Research and Development Program

- The Office of Nuclear Energy is in its ninth year of direct support for U.S. SMR technologies
 - Support initiated in 2012 through the SMR Licensing Technical Support program
- DOE has long recognized the potential benefits of advanced SMR technologies:
 - Improved safety features
 - Lower capital investment compared to large nuclear plants
 - Modularity and siting flexibility
 - Can provide flexible power, heat, hydrogen, and desalination solutions
 - Economic development
 - U.S. industry, manufacturing, and job growth



NuScale SMR module

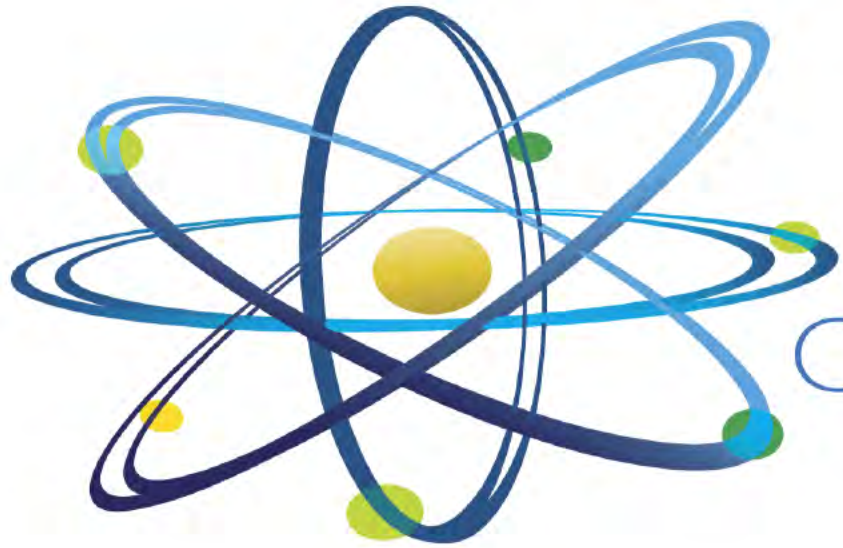
Advanced SMR Research and Development Program

- Program budget to-date:
 - Federal Government fiscal year (FY) 2019 - \$100 million (M)
 - FY 2020 - \$100 M
 - FY 2021 - TBD
 - House Appropriations subcommittee mark for FY 2021 - \$297.3 M
 - Program funding - \$105 M
 - Emergency funding - \$192.3 M
 - Senate Appropriations subcommittee mark for FY 2021 – TBD

Cost-Shared Cooperative Agreement

- DOE has historically supported reactor development projects through cooperative agreements
 - e.g., WEC AP1000 and GE ESBWR through the Nuclear Power 2010 program
- In the mid-to-late 2010's, CFPP project support was considered through other mechanisms:
 - Joint Use Modular Plant (JUMP)
 - Power Purchase Agreement for Idaho National Laboratory
- Due to several considerations, DOE and UAMPS have agreed to pursue support through a direct cost-shared cooperative agreement
 - Federal cost-share envisioned to be ~\$1.4 B through Commercial Operation Date (anticipated in 2029)
 - Cooperative agreement to be used as funding vehicle, subject to the availability of Congressional appropriations
 - Procurement package for this approach currently under review within DOE

Questions?



Clean. **Reliable. Nuclear.**

Fluor Overview - Commitment

Document 8 (Attachment 7)

UAMPS - Carbon Free Power Project
Alan Boeckmann, Chairman, Fluor Corp.
July 21, 2020

ENERGY & CHEMICALS

INFRASTRUCTURE & POWER

MINING & METALS

ADVANCED TECHNOLOGIES & LIFE SCIENCES

GOVERNMENT

DIVERSIFIED SERVICES



FLUOR[®]



Overview

- ▶ **Founded 1912** – 108 years of client service excellence
- ▶ **One of the world's largest** publicly traded **engineering, procurement, construction (EPC) and maintenance** companies
- ▶ **Designs, builds and maintains** capital-efficient facilities for clients on six continents
- ▶ **Comprehensive solutions for clients in diverse industries** - energy & chemicals, government, advanced technologies & life sciences, infrastructure & power, mining & metals and operations & maintenance market sectors
- ▶ **Global execution platform** serving clients in over **60** countries
- ▶ **Worldwide office locations; 130** offices in **35** countries and **6** continents
- ▶ **#164** on the 2019 **FORTUNE® 500** list with revenue of **\$19.2 billion** in 2018
- ▶ **53,000** employees executing projects globally



Fluor Corporate Headquarters | Dallas, Texas

We transform the world by building prosperity and empowering progress.

Global Leadership

- ▶ **Most ethical** and **safest** partner
- ▶ Provides **fit-for-purpose EPC services** and cost-competitive solutions to optimize each client's capital project
- ▶ Masters **supply chain advantages** by using our global procurement network and in-country suppliers
- ▶ Trusted **partner for complex** projects in **challenging and remote environments** around the world
- ▶ Delivers **sustainable projects** through an uncompromised focus on health, safety and environmental excellence
- ▶ Consistently recognized for **industry leadership**:
 - No. 1 on *Engineering News-Record (ENR)*'s 2019 Top 100 Contractors by New Contracts
 - No. 1 on *ENR*'s 2019 list of Top 50 Contractors Working Abroad
 - No. 2 on *ENR*'s 2019 list of Top 400 Contractors

FLUOR[®]

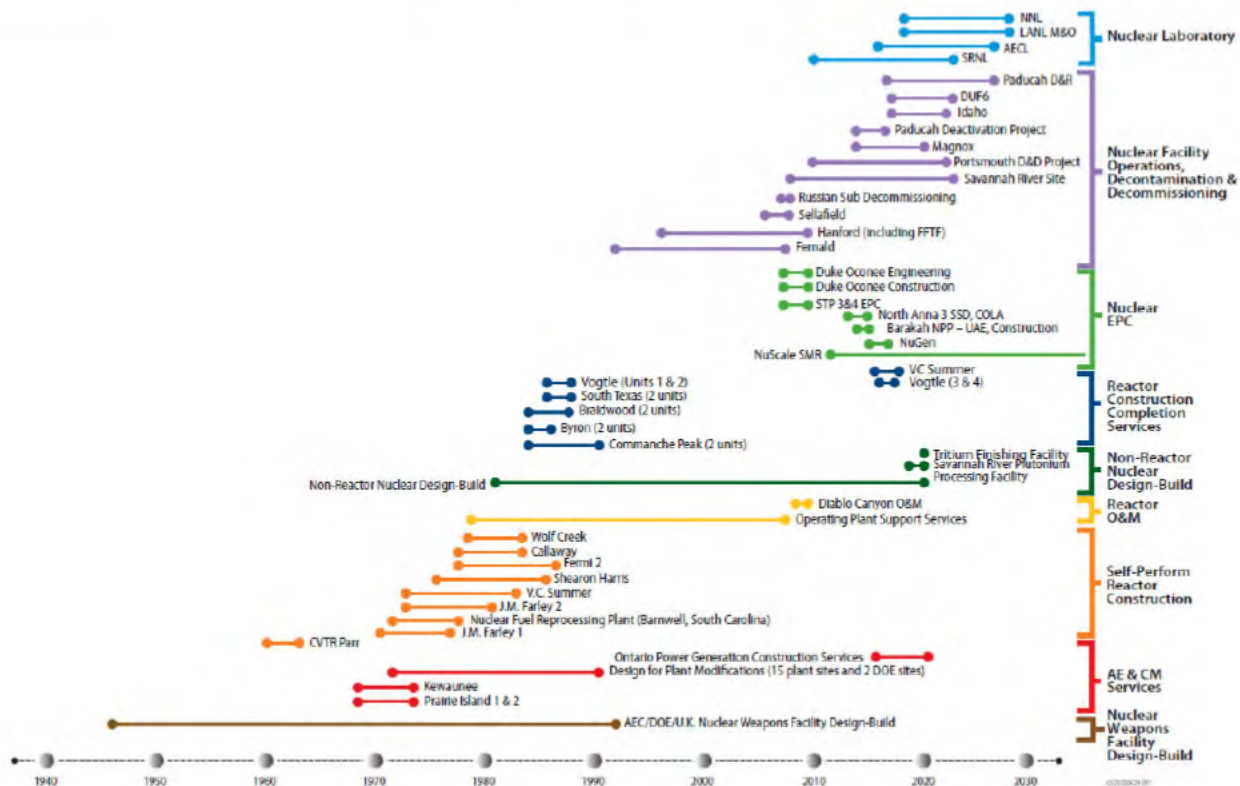
© 2020 Fluor Corporation. All Rights Reserved.



Fluor's 2018 Sustainability Report

Fluor's Nuclear Timeline

Nuclear Experience Since the 1940s



Majority Owner in NuScale

- ▶ **Since 2011**
- ▶ **92% owner (preferred shares)**
- ▶ **`\$600 million invested by Fluor to date**
- ▶ **Fluor commitment to NuScale viability and success stronger now than ever before**
- ▶ **Continue investing in 2020 to ensure the success of the CFPP**

Fluor Role Since 2011

- ▶ **Constructability reviews**
- ▶ **Modularization**
- ▶ **Cost estimating**
- ▶ **Schedule estimates**
- ▶ **Value engineering reviews - \$490 million savings to date**
- ▶ **Planning to be the EPC Contractor for the CFPP**
- ▶ **Going forward**
 - ▶ **Make CFPP a success for DOE, UAMPS, NuScale and Fluor**
 - ▶ **Make NuScale design/build a new business line in Fluor**

CFPP Support

- ▶ Fluor executive resident in UAMPS office in UTAH
- ▶ Fluor's best Project Director hand selected for the EPC delivery
- ▶ Fluor leveraging expertise resident at INL site
 - ▶ Fluor Idaho – INL Cleanup Project
 - ▶ Fluor Marine Propulsion – Naval Spent Fuel Handling Recapitalization Project (SFHP) at INL
- ▶ Fluor Corporation expertise brought to INL to solve tough technical issues at the Calcine Waste Project



EPC Approach

- ▶ Plan well, go to the field only when the design is mature
- ▶ Leverage non-nuclear safety related aspect of the NuScale design to reduce cost of the power island and Balance of Plant (BOP)
 - ▶ Note NuScale has no nuclear safety systems or components outside the reactor building – this is unique to NuScale
- ▶ Working transparently with UAMPS to identify and mitigate risks in advance
- ▶ Proven process used many times before by Fluor with great success
- ▶ Fluor has robust risk management systems
- ▶ Fluor will provide a risk optimized Lump Sum bid for UAMPS members to consider for FNTF

Commitment

- ▶ **No EPC is more motivated than Fluor to make this project successful**
- ▶ **Fluor is totally committed to deliver this successfully for UAMPS, DOE, and NuScale**
- ▶ **Fluor wants the USA to lead in SMR deployment globally**
- ▶ **Fluor wants to be a leader in building the NuScale SMR**
- ▶ **Fluor & NuScale's success relies on a very successful CFPP for UAMPS**
- ▶ **We appreciate and will reward your trust in us**

Nuclear and INL's Role for the Energy Future

Document 8 (Attachment 8)



John C Wagner, Ph.D.
*Associate Laboratory Director
Nuclear Science & Technology*
john.wagner@inl.gov

July 21, 2020
Carbon Free Power Project
Town Hall Meeting

www.inl.gov



Global Reality – energy demand and temperatures are increasing

Projected increase
in world energy use*



2.7°
by 2040

Projected increase in
atmospheric temps if
global greenhouse gas
emissions continue at
current rate**

“Expanding the technology is the fastest way to slash greenhouse gas emissions and decarbonize the economy.”

*New York Times “**Nuclear Power Can Save the World**” By Dr. Joshua S. Goldstein, Dr. Staffan A. Qvist (authors of “A Bright Future: How Some Countries Have Solved Climate Change and the Rest Can Follow”) and Dr. Steven Pinker, psychology professor at Harvard.*
<https://www.nytimes.com/2019/04/06/opinion/sunday/climate-change-nuclear-power.html>

Role of Nuclear Energy

A photograph of a nuclear power plant with several large, white, conical cooling towers. Steam is rising from the towers. In the foreground, there is a field of bright yellow flowers. The sky is blue with some clouds. The image is framed with a dark blue border.

25% by 2050

“Nuclear generation must triple”

Nuclear Contributions

AVOIDS
547.5
 MILLION
 METRIC TONS OF
CARBON
 EMISSIONS
 EACH YEAR

+

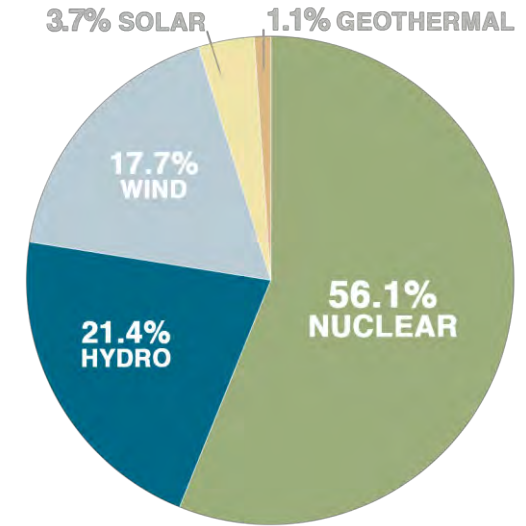
PREVENTS
315,000
 SHORT TONS
 OF **NOx**

AND

374,000
 SHORT TONS
 OF **SO₂**
 EMISSIONS

—AVERAGE—
CAP FACTOR
>90%
 SINCE 1999

CLEAN ENERGY CONTRIBUTION



SUPPORTS
475,000
JOBS

SAVES CONSUMERS
 AN AVERAGE OF
6%
 ON ELECTRICITY BILLS

ADDS
\$60
 BILLION
 TO THE COUNTRY'S
GDP

Nuclear Energy and Climate Change



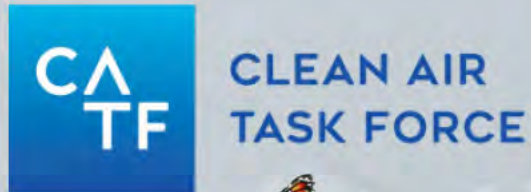
**SIERRA
CLUB**



**ENVIRONMENTAL
PROGRESS**



mothers *for* nuclear



CLEARPATH



third way
fresh thinking



Union of
Concerned
Scientists

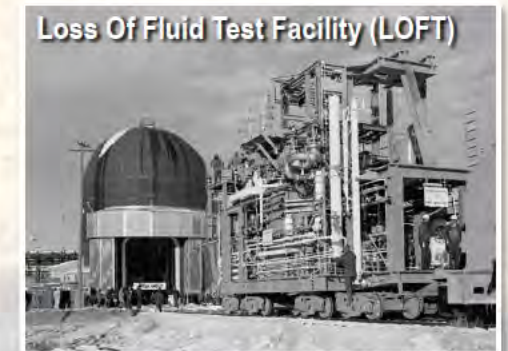
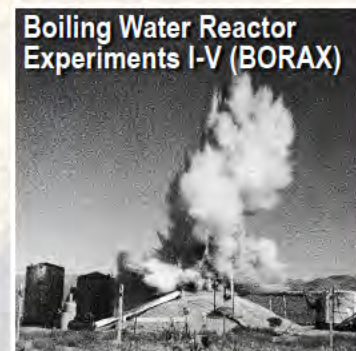
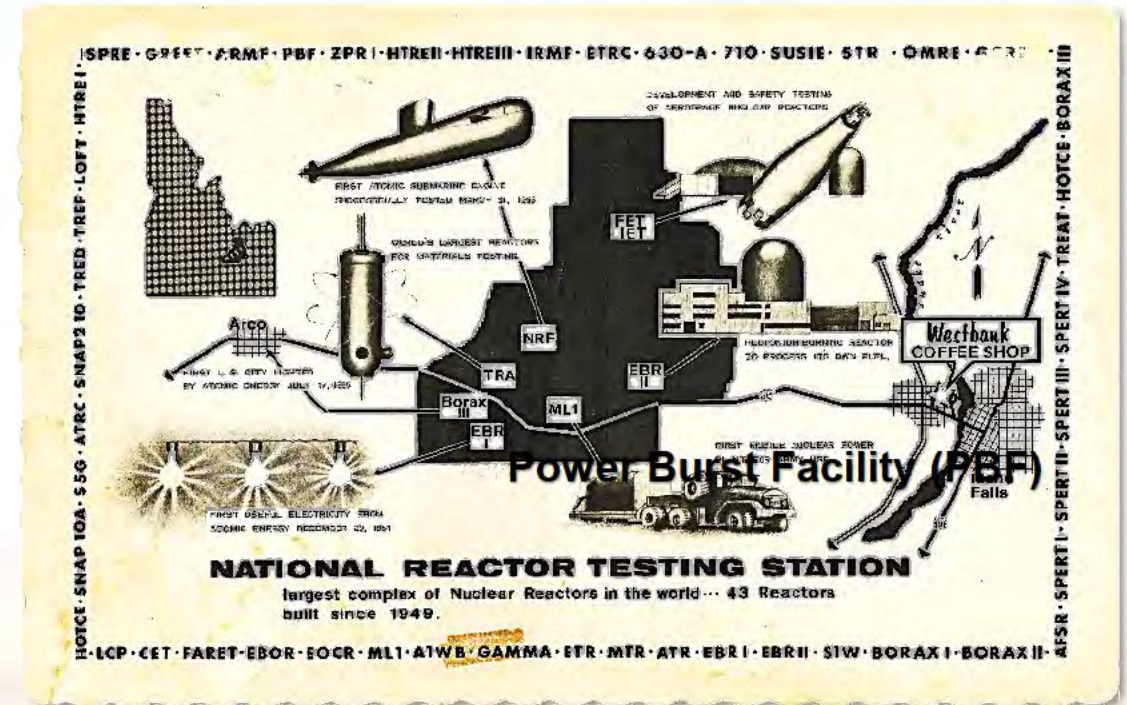


The Nature
Conservancy



INL's origin: The National Reactor Testing Station provided capabilities that drove nuclear innovation in the U.S. and around the world

- First nuclear power plant
- First U.S. city to be powered by nuclear energy
- First submarine reactor tested
- First mobile nuclear power plant for the army
- Demonstration of self sustaining fuel cycle
- Basis for LWR reactor safety
- Aircraft and aerospace reactor testing
- Materials testing reactors

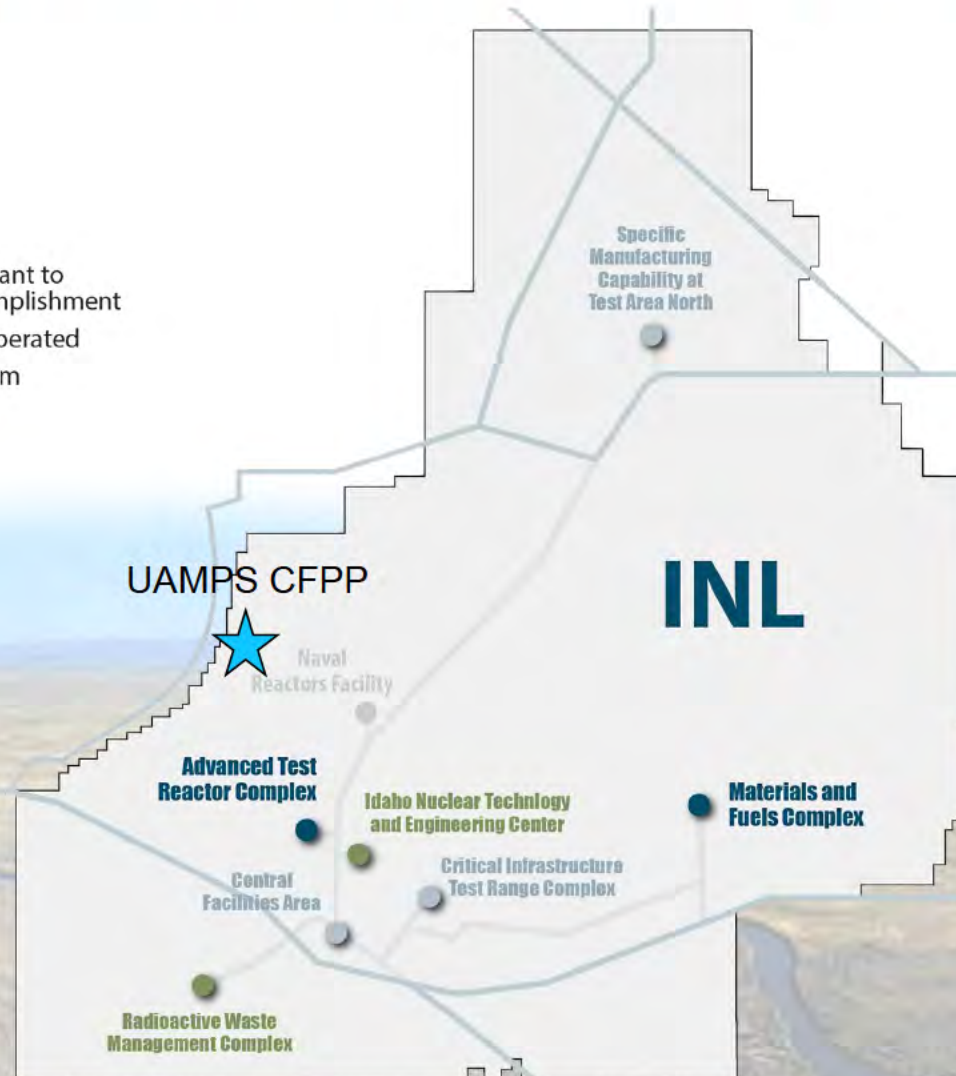


The Idaho National Laboratory Site – A Unique Capability for the Nation

569,178 Acres
890 Square Miles

- Public Highways
- Main Site Roads
- Primary INL Campus Important to NE and other Mission Accomplishment
- Presently EM Owned and Operated
- Supporting INL Multiprogram Missions

0 2 4 6 8
Scale in Miles

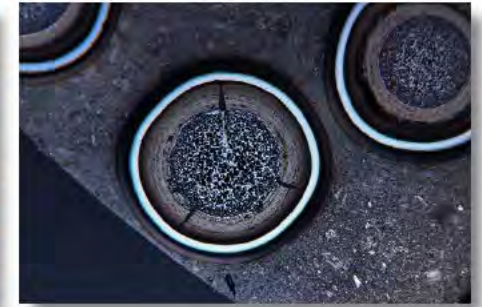


- 16** Nuclear facilities (Haz Cat 1, 2 & 3)
- 44** Radiological facilities
- 4** Operating reactors
- 17.5** Miles railroad for shipping nuclear fuel
- 40** Miles primary roads (125 total)
- 7** Substations with interfaces to three power providers
- 112** Miles high-voltage transmission lines
- 3** Fire stations

4,927 Employees

FY19 Business Volume \$1.35 B

Today, INL leads RD&D to sustain the current nuclear reactor fleet and deploy advanced nuclear energy systems



Nuclear Reactor Sustainment and Expanded Deployment

**Strengthen
the domestic
commercial nuclear
energy enterprise**

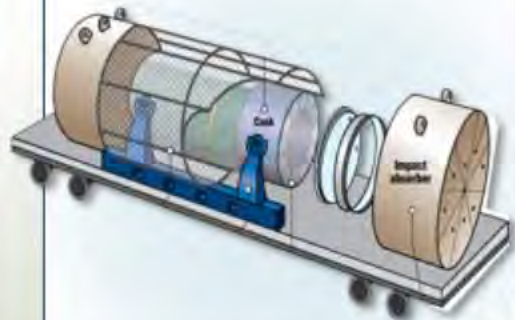
**Enable U.S.
technological
leadership in
global nuclear
energy markets**

**Expand and deploy
national nuclear
energy strategic
infrastructures**

Creating the Next-Generation National Reactor Testing Station: **Vision for Advanced Reactor Demonstrations and Deployment**

Demonstrate first microreactor by early 2020s

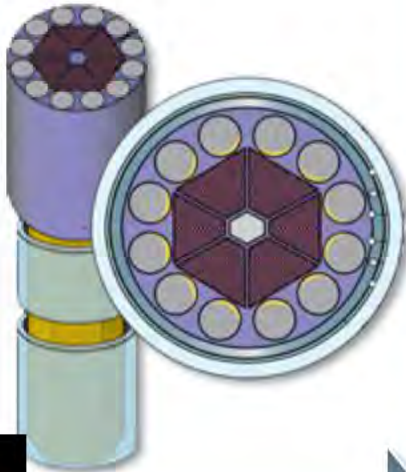
- Resolve key advanced reactor issues
- Open new markets for nuclear energy
- Provide a 'win' to build positive momentum



2024

Commercial microreactors deployed

- Support deployment for remote site power and process heat customers
- RD&D to enable broader deployment



2025

SMR(s) operating

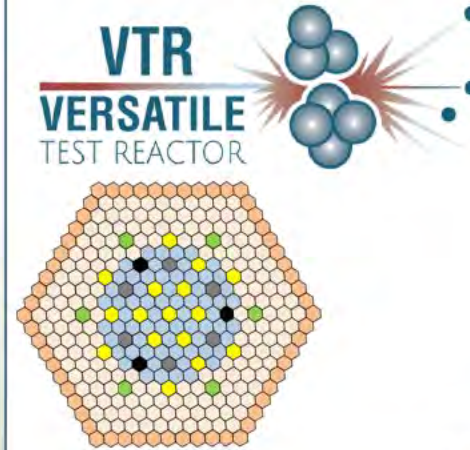
- Enable deployment through siting and technical support
- Potential Power Purchase Agreement



2026

Versatile Test Reactor (VTR) operating

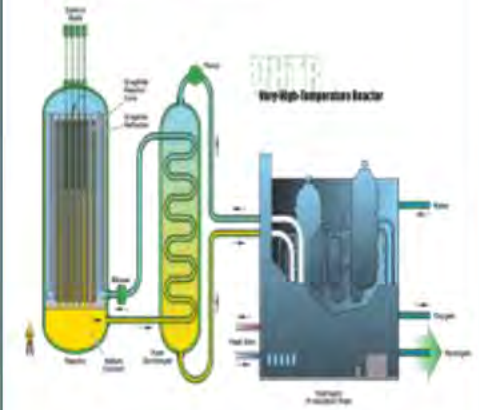
- Establish fast-spectrum testing and fuel development capability
- Support non-LWR advanced reactor demonstrations



2030

Non-LWR advanced demonstration reactor by 2030

- Demonstrate non-LWR technology replacement of US baseload clean power capacity



National Reactor Innovation Center is providing capabilities to accelerate technology readiness from proof-of-concept through proof-of-operation

NEICA

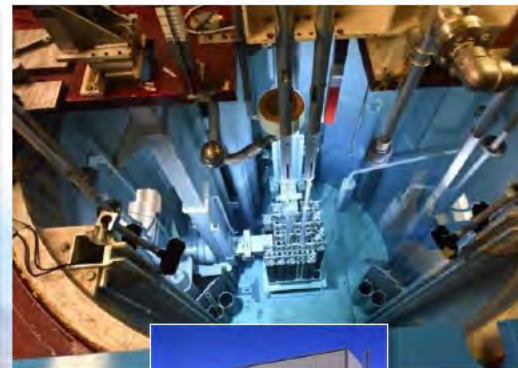
Nuclear Energy Innovation Capabilities Act

*Signed into law September 2018, NEICA calls for the creation of a **National Reactor Innovation Center** to support demonstration of cost-shared private reactors.*

NRIC

National Reactor Innovation Center

NRIC is a place where government and private companies can test and demonstrate new reactor designs, as well as materials, fuels, and other nuclear energy technologies.



Questions?



Idaho National Laboratory





NUSCALE[™]
Power for all humankind

CFPP Town Hall Meeting NuScale's Commercial Outlook

July 21, 2020

John Hopkins
Chairman and CEO, NuScale Power

Acknowledgement and Disclaimer

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Who is NuScale Power?

- NuScale Power was formed in 2007 for the sole purpose of completing the design and commercializing a small modular reactor (SMR) – the NuScale Power Module™.
- Initial concept was in development and testing since the 2000 U.S. Department of Energy (DOE) MASLWR program.
- Fluor, global engineering and construction company, became lead investor in 2011.
- In 2013, NuScale won a competitive U.S. DOE Funding Opportunity for matching funds.
- >530 patents granted or pending in nearly 20 countries.
- >400 employees in 6 offices in the U.S. and 1 office in the U.K.
- Rigorous design review by the U.S. Nuclear Regulatory Commission (NRC) to be completed in 2020.
- Total investment in NuScale to date is greater than US\$950M.



NuScale Engineering Offices Corvallis



One-third Scale NIST-2 Test Facility



NuScale Control Room Simulator

NuScale's Mission

NuScale Power provides scalable advanced nuclear technology for the production of electricity, heat, and clean water to improve the quality of life for people around the world.



Artistic concept of the NuScale Power Plant



A Bold, New Energy Source

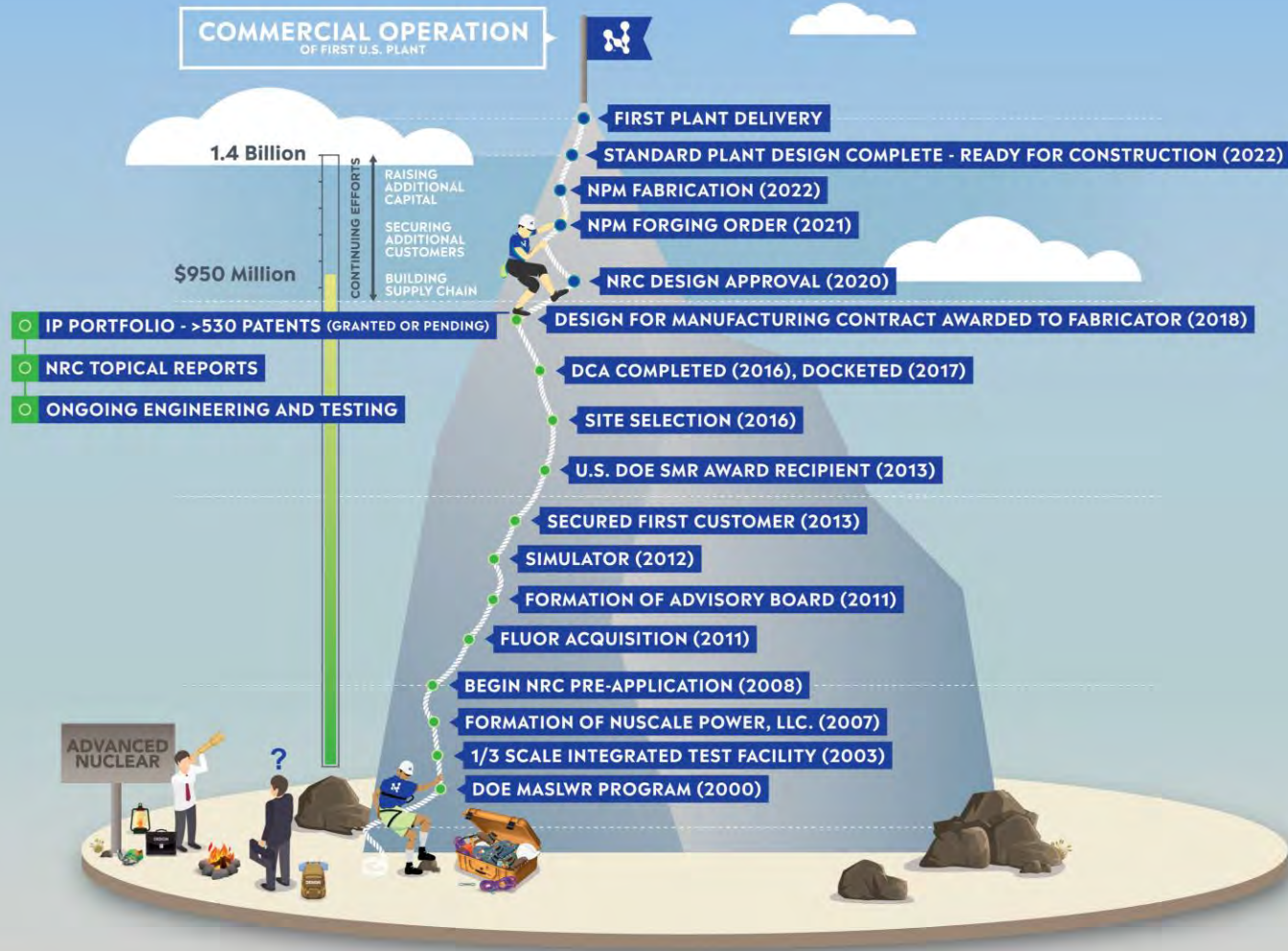
- **Smarter Energy** – Flexible design can support multiple applications, integrate with renewable resources, provide highly reliable power to mission critical facilities, and serve as clean baseload power.
- **Cleaner Energy** – 100% carbon-free energy – as clean as wind or solar – with a small land footprint.
- **Safer Energy** – Should it become necessary, NuScale's SMR shuts itself down and self-cools for an indefinite period of time, with no operator action required, no additional water, and no AC or DC power needed.
- **Cost Competitive** – The NuScale SMR is far less complex than other designs. Off-site fabrication and assembly reduce cost. Components are delivered to the site in ready-to-install form. All of this results in construction occurring in a shorter, more predictable period of time.

A low-angle photograph of a NuScale Small Modular Reactor (SMR) unit. The unit is a large, white, cylindrical vessel with a complex network of pipes and structural supports. The NuScale logo, a stylized blue figure, is prominently displayed on the front of the unit. The background is a vast, blue sky filled with soft, white clouds.

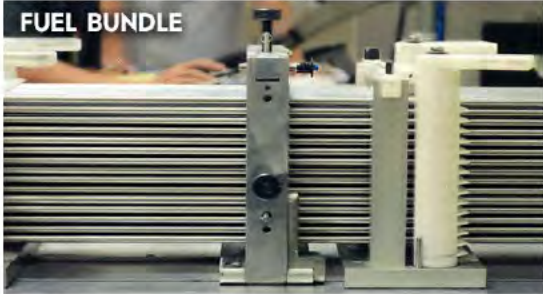
NUSCALE™



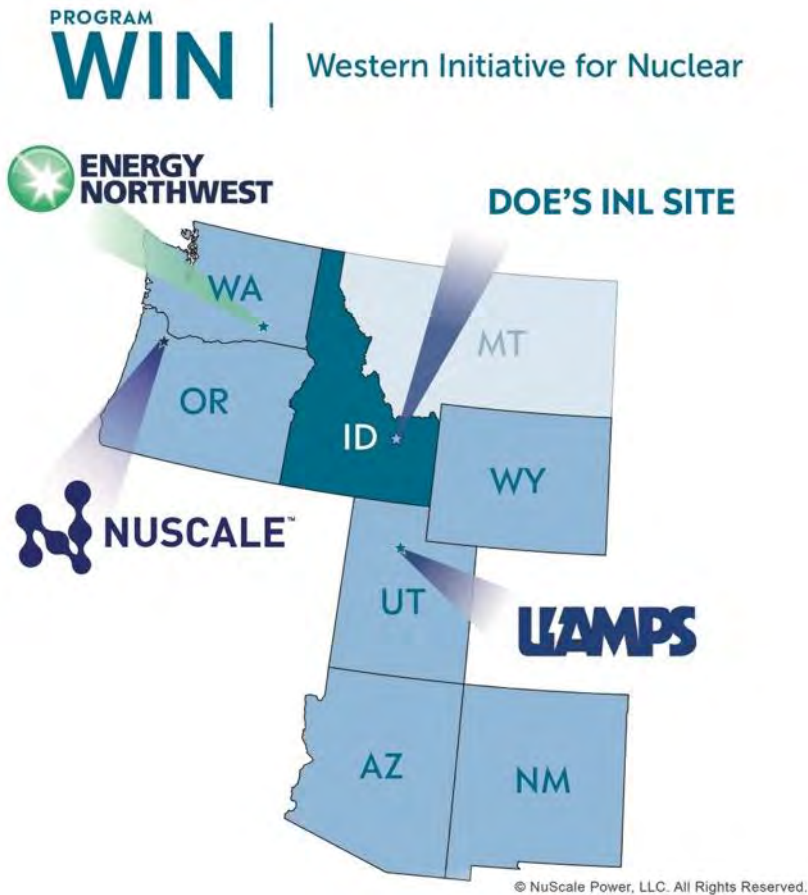
Blazing the Trail to Commercialization



Manufacturing and Testing of Real Components



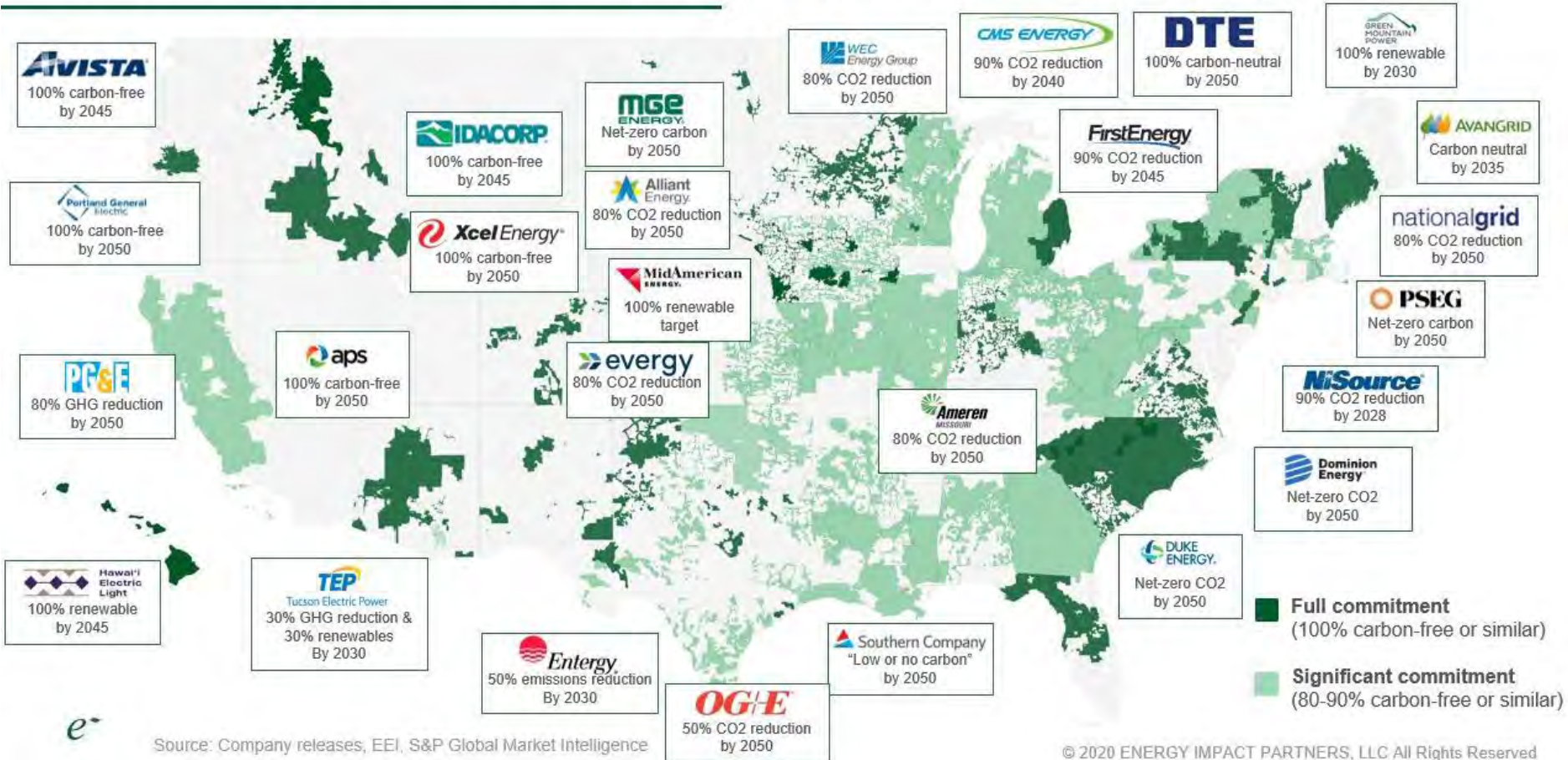
UAMPS Carbon Free Power Project – Commitment to Success



- NuScale's first commercial deployment
- Preparations before construction focus on de-risking first-of-a-kind program elements and successful delivery
- Areas of focus/de-risking:
 - Development of detailed delivery plan
 - Design finalization before construction
 - NRC Licensing: maximize DC and SDA content, minimize COL content
 - DOE funding support
 - Numerous prototypical demonstrations of FOAK equipment
 - Establishing a robust supply chain
 - Integrating recent new plant lessons learned
 - Detailed and refined project cost estimates (Levels III, III, I)
- Successful deployment is paramount for NuScale and industry

Utilities Across The U.S Are Setting Their Own Emissions Goals

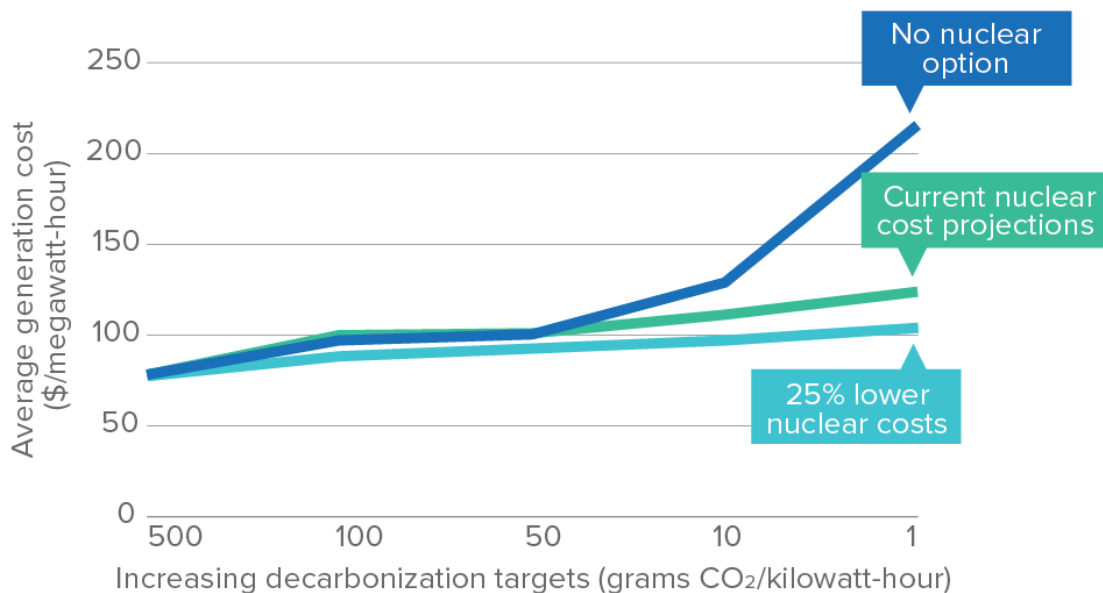
24 IOUs have made commitments to lower their emissions by 80% or more, 14 at 100% or carbon-neutral



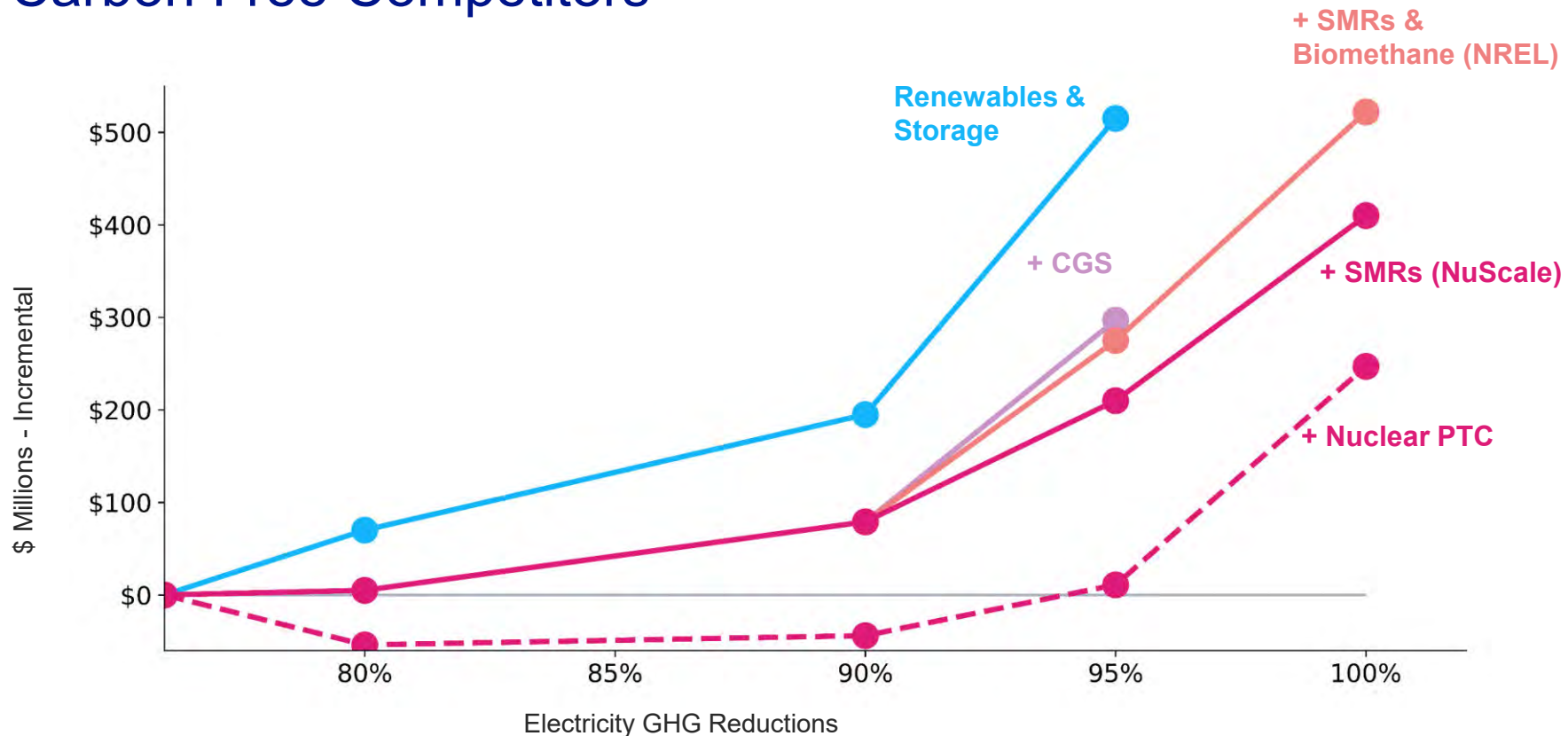
Source: Madison Freeman, Energy Impact Partners, updated February 2020

Nuclear As Part Of A Clean Energy Portfolio

- 2015: Jacobson et al. study and RE100 for companies promote 100% renewable, including only wind, solar, and hydro to meet all US electricity needs.
- 2017: Clack et al. evaluate Jacobson study and find significant short comings.
- 2018: MIT Energy Initiative study finds that decarbonizing the power sector will be most economical if nuclear energy's capacity for providing vast amounts of carbon-free electricity is brought to bear (shown in graph).
- 2018: California passes SB100, which is open to technologies of the future.
- 2019-2020: Washington, Oregon, New Mexico, and other states are all considering clean energy legislation that allow for carbon-free nuclear.

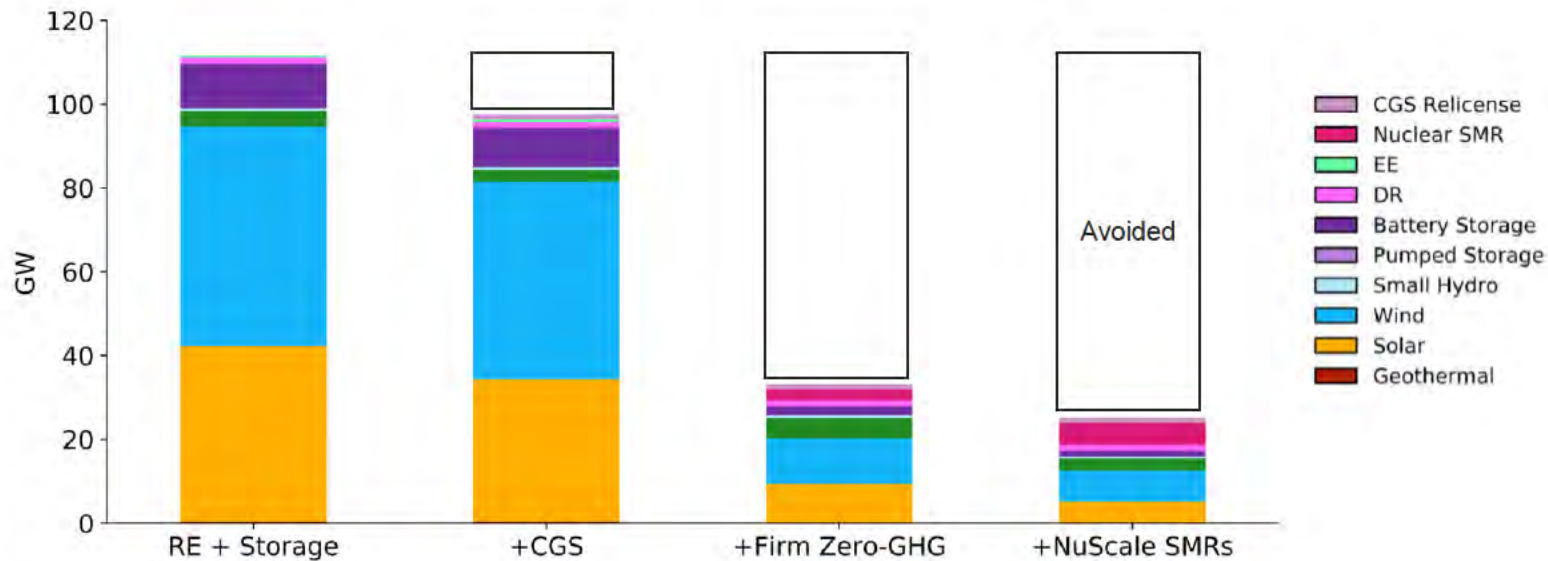


NuScale SMRs Reduce Cost Compared to other Baseload Carbon Free Competitors



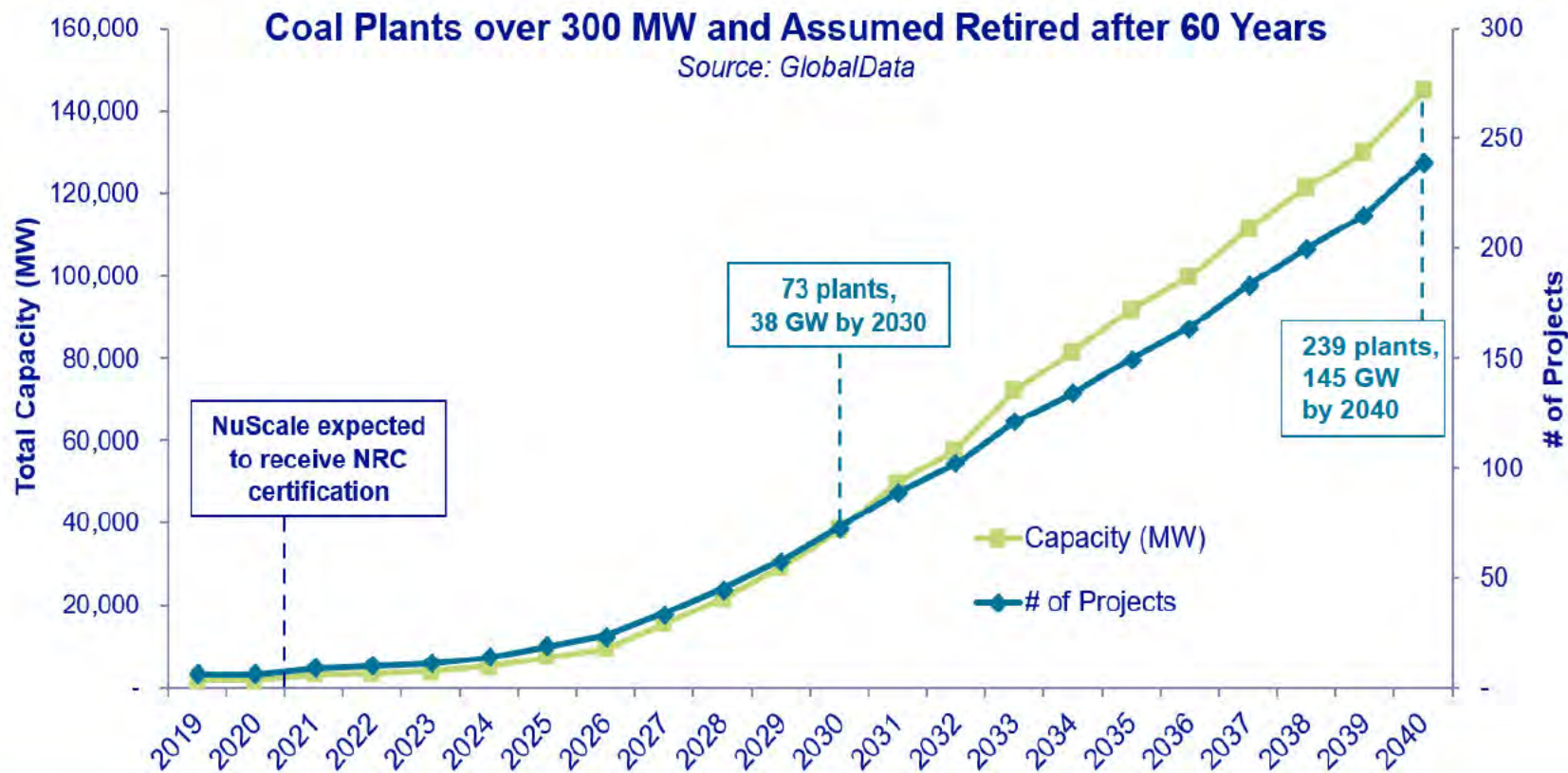
“CGS [Columbia Generating Station] + NuScale SMRs reduce system costs by almost \$8B per year relative to RE [Renewable Energy] + Storage.” – E3 study

Benefits of zero-emitting firm capacity at 100% GHG reductions



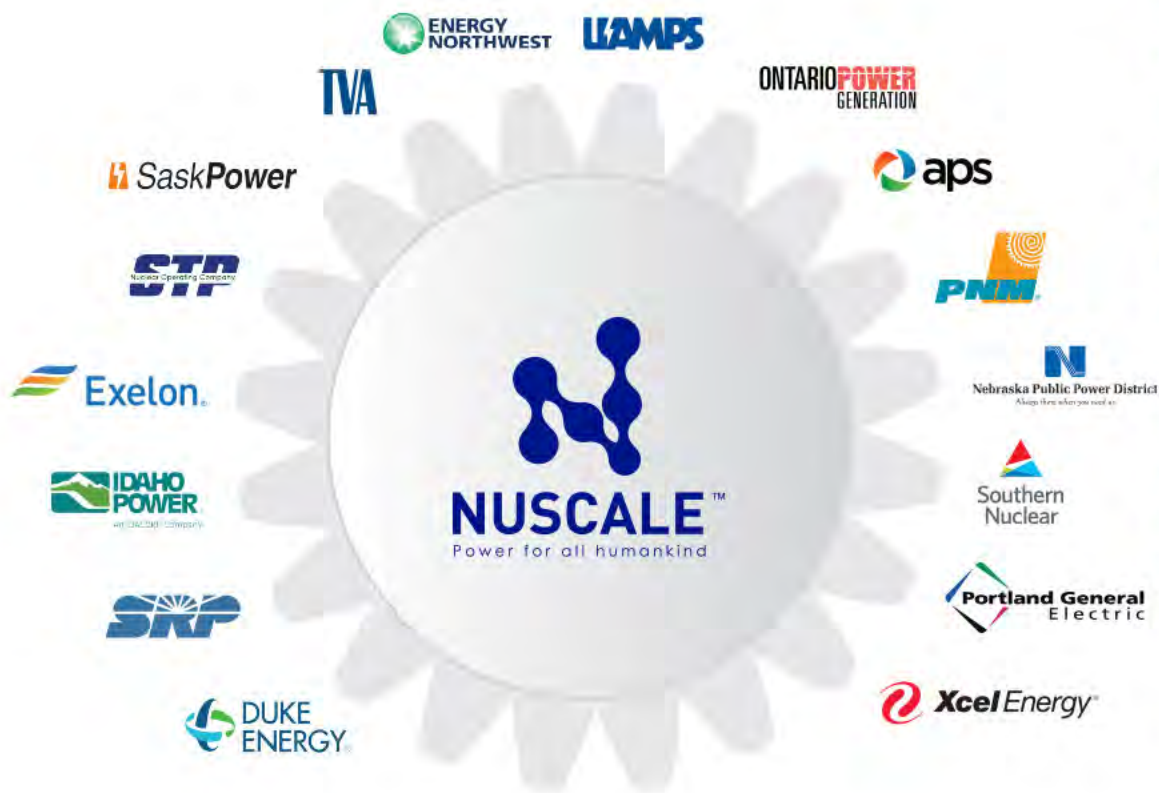
“Low-cost SMRs reduce the need to overbuild renewables for capacity purposes... Renewables continue to be valuable resources that coexist in a system with lower-cost SMRs” – E3 study

U.S. Coal Power Plant Retirements - SMR Opportunity



- Each NuScale Plant employs ~300 people full-time, with 1200 peak construction jobs
- NuScale Plant can be scaled to re-power retiring coal power plant capacity

Industry Interest and Support



Positive attributes of a flexible, carbon-free baseload generating technology scaled for customer needs bringing significant market enthusiasm.

NuScale has engaged with multiple utilities and other end users to potentially deploy NuScale SMR technology domestically and internationally.

To support engagement with the domestic utility market, NuScale created the NuScale Advisory Board (“NuAB”) in 2008, which initially had 8 members.

- Over 29 companies have participated in NuAB since its inception.
- NuAB meets about two times a year to contribute to design discussions that will meet their operational needs.

North America Opportunities

Domestic

- Several IRP requests
 - Coal plant replacements

Interest from:

- Northwest utilities
- Midwest utility
- Southeast utility
- Southwest utilities

Canada

- MOUs with OPG and Bruce Power
- Active engagement with other Canadian power companies
- Actively involved in Canadian industry SMR Roadmap related activities
- NuScale made its second submittal on July 14, 2020 to the Canadian Nuclear Safety Commission (CNSC) for pre-licensing vendor design review (VDR).

International Opportunities

- NuScale has been actively involved in the United Kingdom's SMR market and continues to support UK government SMR program initiatives.
- NuScale and Nuclearelectrica SA signed an MOU to evaluate SMRs for Romania's energy needs.
- NuScale signed an MOU with ČEZ Group to explore SMR opportunities in the Czech Republic and broader region.
- NuScale signed MOU with Jordan Atomic Energy Commission (JAEC) to evaluate NuScale's SMR for use in Jordan.
- NuScale engaged in public inquiry to remove nuclear prohibition in Australia; interest from two developers should prohibition be lifted.
- NuScale has teamed with a Japanese nuclear constructor and a nuclear component-manufacturing firm to participate in the Ministry of Economy, Trade and Industry's (METI) Nuclear Energy X Innovation Promotion (NEXIP) program to conduct feasibility studies on NuScale SMR deployment in Japan.
- NuScale is working with entities in Europe, central and southeast Asia, and Africa on roadmaps for SMR deployment.

Bi-Partisan Congressional Support for NuScale and Advanced Nuclear

- U.S. DOE \$330M cost-share contribution to NuScale over two administrations and four sessions of Congress.
- Advanced Nuclear Production Tax Credit statutes amended in 2018 to secure benefit for municipally-owned nuclear projects, like UAMPS CFPP.
- Nuclear Energy Innovation and Modernization Act ([NEIMA](#)) enacted Dec 2018.
- Nuclear Energy Infrastructure and Capabilities Act ([NEICA](#)) enacted Sep 2018.
- Better Utilization of Investments Leading to Development ([BUILD](#)) Act enacted Oct 2018.
 - Established U.S. International Development Finance Corporation (DFC).
 - DFC proposed policy change in Jun 2020 to permit funding of advanced nuclear projects such as the NuScale Power Plant.
- Nuclear Energy Leadership Act ([NELA](#)) provisions incorporated into 2020 National Defense Authorization Acts – pending in Senate and House.
- [Energy Sector Innovation Credit Act](#) – introduced in House Sep 2019 and under consideration in Senate.

Appropriations supported over multiple administrations

US DOE Support to NuScale and CFPP[^]

- DOE Support for NuScale Development Activities
 - DOE Award DE-NE0008928 NuScale SMR FOAK Demonstration Readiness Project Completion is a 5-year 50% cost share to complete all development activities required to support the future deployment of a commercially viable SMR with a baseline of \$525M and an award ceiling of \$700M.
 - The baseline scope includes generic licensing, design finalization, standard plant design, operational planning, and supply chain development activities required to ready the NuScale SMR for deployment.
 - This project builds on three previous DOE cost-share awards to support for NuScale development activities. Total DOE support for the NuScale and licensing effort from 2014 to date is in excess of \$365M.
- DOE Support for the Carbon Free Power Project*
 - DOE Award DE-NE0008369 Renewal for CFPP Site Permitting and Licensing is a 50% cost share with a maximum DOE contribution of \$63.5M seeking the accelerated commercialization of SMR's as affordable, safe, secure and resilient source of nuclear power in order to help meet the nation's economic and energy security objectives.
 - The scope covered in the project includes engineering, analysis, regulatory engagement and other activities necessary to receive the site licensing from the NRC to deploy the first NuScale SMR at the selected site on the INL. The scope is broken down to 5 key areas: Owner Development Activities, NRC interactions, Site Specific Engineering, COLA Preparation and COLA Review.
 - To date, the CFPP project has spent to date ~ \$12M in project planning, business development and site selection, preparation and characterization activities.

[^]Does not include DOE awards directly intended for UAMPS

*This award will be superseded by the upcoming DOE award scheduled for UAMPS

Why is the development of NuScale's SMR so important to the U.S.?

- Economic growth and prosperity
 - Jobs and revenue from the sale, sourcing, and servicing of new U.S. commercial nuclear technologies.
- Revitalize and expand U.S. commercial nuclear technology development leadership and supply chain capability
 - The U.S. Government will leverage American technological innovation and advanced nuclear research, development, and demonstration (RD&D) investments to accelerate technical advances and regain American nuclear energy leadership.*
- National security interest - strategically enhance U.S. global presence
 - Europe, Africa, Asia, Australia, Canada, Middle-East
 - Combat Russia and China expansionism
 - Long term influence...60+year design life for a typical plant
 - The U.S. Government will move into markets currently dominated by Russian and Chinese State Owned Enterprises (SOE) and recover our position as the world leader in exporting best-in-class nuclear energy technology, and with it, strong non-proliferation standards. We will restore American nuclear credibility and demonstrate American commitment to competing in contested markets and repositioning America as the responsible nuclear energy partner of choice.*

**US DOE Report May 2020: Restoring America's Competitive Nuclear Energy Advantage. A Strategy to assure US National Security*

**Let's change the power that changes
the world**



From: [Bubb, James](#)
To: [Bates, Melissa \(HQ\)](#)
Cc: [Mason Baker](#); [Minderman, John](#)
Subject: [EXTERNAL] RE: UAMPS FOA Award
Date: Thursday, July 30, 2020 4:22:59 PM
Attachments: [11 year numbers.xlsx](#)

Melissa,

Attached are the numbers you requested for all 11 years. Feel free to call me if these aren't the numbers you need, but I'm pretty sure I understood what you were after.

(b) (6)

Best,

Jim

-----Original Appointment-----

From: Mason Baker [mailto:mason@uamps.com]

Sent: Thursday, July 30, 2020 5:33 PM

To: Mason Baker; Payne, Mark B; Scott Fox; Bubb, James; Bates, Melissa (HQ) (HQ); Olson, Suzette M

Subject: UAMPS FOA Award

When: Thursday, July 30, 2020 3:45 PM-4:15 PM (UTC-07:00) Mountain Time (US & Canada).

Where: (b) (6)

Let me know if this time doesn't work available the rest of the day.

Mason Baker is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

(b) (6)

Meeting ID: (b) (6)

One tap mobile

(b) (6) US (Houston)

	COLA Prep & Design Completion				Site Prep & COLA Review		Construction			Startup & COD		Closeout	
	Total	FY20	BP1 FY21 (Note 1)	BP2 FY22 (Note 1)	BP3 FY23 (Note 1)	BP4 FY24	BP5 FY25	BP6 FY26	BP7 FY27	BP8 FY28	BP9 FY29	FY30	FY31
Estimated Project Spend	(b)(4)												
UAMPS Cost													
UAMPS IDCs													
DOE Funding													
Period DOE Cost Share													
Cumulative Award Cost Share													

Rodriguez, Susan (CONTR)

Subject: [EXTERNAL] Canceled: CFPP Weekly Status Meeting
Location: Webex

Start: Tue 8/25/2020 11:00 AM
End: Tue 8/25/2020 12:00 PM
Show Time As: Free

Recurrence: (none)

Meeting Status: Accepted

Organizer: Bogema, Harrison Stuart

Categories: Responsive

CFPP Team

We have been notified that the CFPP project has been suspended for now. There are a number of efforts ongoing to reframe the project in a way that allows it to continue. For now, we need to cancel the weekly call for the larger group.

Communications to complete the ongoing geophysics work will be addressed separately.

If you have any questions, please contact me.

Thanks,

Jeff

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From: [Miller, Mike](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] RE: FY20 Funding Available for New Award
Date: Thursday, September 10, 2020 10:19:00 AM

I'm available today until about 1pm. If this question is about the existing award, I can provide those answers. However, it sounds like this is a question about funding on the new award, and I don't have those budget planning numbers and have limited insight. Those would come from UAMPS, or their owner's engineer.

Mike Miller
CFPP Project Manager
email: mmiller@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Wednesday, September 9, 2020 3:47 PM
To: Miller, Mike <mmiller@nuscalepower.com>
Cc: Mason Baker <mason@uamps.com>
Subject: RE: FY20 Funding Available for New Award

Let's discuss when you have a minute. I don't want this activity to become harder than it needs to be.

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

-----Original Message-----

From: Miller, Mike [<mailto:mmiller@nuscalepower.com>]
Sent: Wednesday, September 09, 2020 6:44 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Cc: Mason Baker <mason@uamps.com>
Subject: [EXTERNAL] RE: FY20 Funding Available for New Award

Trying to understand this - it sounds like you would like an estimate for project costs (& expected DOE cost share) for the, say, first 1/2 of October (first two weeks) that are planned for on the new award? Or, for the rest of the calendar year?

Either way, seems like the FOA budget for Q4 2020 is the place to start. Sounds like another request to MPR.

Mike Miller
CFPP Project Manager
email: mmiller@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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proprietary, confidential and/or privileged material, which doesn't change if it is sent to an unintended recipient. Unless you have my consent, please do not copy, forward, or reveal the contents of this email to anyone.

-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>

Sent: Wednesday, September 9, 2020 12:01 PM

To: Mason Baker <mason@uamps.com>; Miller, Mike <mmiller@nuscalepower.com>

Subject: FY20 Funding Available for New Award

Mason / Mike,

DOE-ID currently has \$4,300,000.00 available for the new award to UAMPS. Since DOE is heading into a new fiscal year, we will need to identify any FY20 funding that we would like to have made available in early October 2020, in the event the finalization of the award to UAMPS is delayed til then. Any identified funds will be swept up on Sept 18th and remain unavailable until they are released in early October. However, any funds that we hold on to past Sept 18th (if the award is not finalized by then) will be swept up on Sept 30th and will remain unavailable until they are re-released in the January 2021 timeframe. Therefore, to cover our bases (e.g. supporting the ability to place an award by Sept 30th or after Oct 1 if there is delay), we will need to identify how much funding we should hold on to now, in the event the award can be placed by Sept 30th, as well as how much should be made unavailable on Sept 18th to support an award in Oct if there is delay. Let me know if this makes sense.

Thanks,

Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

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This message does not originate from a known Department of Energy email system. Use caution if this message contains attachments, links or requests for information.

From: [Bates, Melissa \(HQ\)](#)
To: [Mason Baker](#)
Subject: FOA Summary Tables Rev 3_modified profile.xlsx
Date: Tuesday, October 6, 2020 10:37:00 AM
Attachments: [FOA Summary Tables Rev 3_modified profile.xlsx](#)

	Total	COLA Prep & Design Completion			Site Prep & COLA Review		Construction			Startup & COD		
		BP1 FY21 (Note 1)	BP2 FY22 (Note 1)	BP3 FY23 (Note 1)	BP4 FY24	BP5 FY25	BP6 FY26	BP7 FY27	BP8 FY28	BP9 FY29	FY30 (Included)	FY30 (Not Included)
Total Project Spend (Note 3)	(b)(4)											
UAMPS Cost												
UAMPS IDCs (Note 3)												
DOE Funding												
Period DOE Cost Share												
Cumulative Award Cost Share												

Note 1. (b)(4)

(b)(4)

From: [Bates, Melissa \(HQ\)](#)
To: [Mason Baker](#)
Subject: Draft Congressional Notification
Date: Tuesday, October 6, 2020 10:42:00 AM
Attachments: [2020.09.23 - 301 Notification - UAMPS DNFA.docx](#)

Preliminary draft copy, please do not distribute.

Thanks,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)



Department of Energy

Washington, DC 20585

September 23, 2020

The Honorable Nita Lowey
Chairwoman, Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

The Honorable Richard Shelby
Chairman, Committee on Appropriations
U.S. Senate
Washington, DC 20510

The Honorable Marcy Kaptur
Chairwoman, Subcommittee on Energy
and Water Development
Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

The Honorable Lamar Alexander
Chairman, Subcommittee on Energy
and Water Development
Committee on Appropriations
U.S. Senate
Washington, DC 20510

Subject: Section 301/311 Notification of Intent to Make a Non-competitive Financial Assistance Award

Dear Chairmen Lowey, Shelby, Kaptur and Alexander:

No earlier than three full business days from the date of this notification, the Department of Energy (DOE) intends to award an action falling under one or both of the following categories:

- An award totaling \$1,000,000 or more under P.L. 115-244 Section 301(b)(1); P.L. 115-141 Section 301 (b)(1); P.L. 115-31 Section 301(b)(1); P.L. 114-113 Section 301(b)(1); P.L. 113-235 Section 301(b)(1); P.L. 113-76 Section 301(b)(1); P.L. 113-6 Section 1101; P.L. 112-74 Section 311; P.L. 112-10 Section 1101; or P.L. 111-85 Section 311; and / or
- A multi-year action using “Department of Energy—Energy Programs” budget authority that is not fully funded under P.L. 115-244 Section 301(c); P.L. 115-141 Section 301(c); P.L. 115-31 Section 301(c); P.L. 114-113 Section 301(c); P.L. 113-235 Section 301(c) or P.L. 113-76 Section 301(c).

This information is market sensitive, predecisional and not public at this time. Accordingly, we request that you do not further disseminate this information. If you are considering disseminating this predecisional information, we respectfully request that you consult with the Department prior to making such a decision.

This multi-year action in support of the Department of Energy, Idaho Operations Office, is as follows:

BUSINESS SENSITIVE

- Funding is being provided for award number DE-NE0008935, entitled “Commercialization and Deployment of the First NuScale Power (NuScale) Small Modular Reactor (SMR) in the United States (U.S.): The Carbon Free Power Project (CFPP).” The dollar value for this ten-year award is up to \$6,000,000,000 (DOE providing up to \$1,355,218,559, subject to the availability of appropriations, and CFPP, LLC (an entity wholly owned by Utah Associated Municipal Power Systems (UAMPS)) providing up to \$4,644,781,441, based on a 23% Gov’t/77% Awardee cost share arrangement).

Fiscal Year	Program Office	Program	Estimated DOE Funding* (\$1,355 M)	Estimated Awardee Funding (\$4,645 M)	% Gov’t Cost Share
FY 2020	Office of NE	Advanced SMR R&D Program	\$4,300,000	-	-
FY 2021	Office of NE	Advanced SMR R&D Program	\$30,917,177	\$9,466,459	79%
FY 2022	Office of NE	Advanced SMR R&D Program	\$50,888,304	\$13,400,596	79%
FY 2023	Office of NE	Advanced SMR R&D Program	\$111,970,217	\$30,138,151	79%
FY 2024	Office of NE	Advanced SMR R&D Program	\$392,040,382	\$103,565,460	79%
FY 2025	Office of NE	Advanced SMR R&D Program	\$293,102,479	\$97,859,226	75%
FY 2026	Office of NE	Advanced SMR R&D Program	\$156,000,000	\$976,257,862	14%
FY 2027	Office of NE	Advanced SMR R&D Program	\$80,000,000	\$1,572,882,887	5%
FY 2028	Office of NE	Advanced SMR R&D Program	\$121,000,000	\$1,103,788,666	10%
FY 2029	Office of NE	Advanced SMR R&D Program	\$115,000,000	\$536,780,905	18%
FY 2030	Office of NE	Advanced SMR R&D Program	\$0	\$200,641,230	0%
TOTAL			\$1,355,218,559	\$4,644,781,441	23%

***Subject to the Availability of Appropriations**

- The scope of this cooperative agreement includes any and all required activities to achieve commercial operation of a Nuclear Regulatory Commission (NRC)-licensed, first-of-a-kind, 12-module NuScale SMR power plant at the Idaho National Laboratory. Specifically, CFPP, LLC will be performing the following deployment activities under the proposed award: project management; owner’s development activities; Combined License Application (COLA) development; COLA review and approval by the NRC; site-specific engineering; component fabrication, transportation, and assembly; site mobilization and construction; staffing and operational accreditation; and startup and commissioning. If successful, this effort will commercially demonstrate and deploy a first-of-a-kind SMR technology that includes revolutionary safety, improved cost and schedule certainty for clients, factory-based module manufacturing and associated domestic job growth, flexible deployment options, and a source of resilient power to support the nation's critical infrastructure, as well as will establish the NuScale design as an exportable technology for the international market.

- The grant number is DE-NE0008935.
- The selectee is CFPP, LLC, located in Salt Lake City, Utah.
- This multi-year action will use future fiscal year obligated funds to complete all activities needed to support the domestic deployment of a commercially viable SMR.

Staff from the Office of Budget, Office of the Chief Financial Officer will follow up with additional details as appropriate. If you have any questions, please contact the Office of External Coordination at 202-586-4180.

Sincerely,

Suzette M. Olson
Director, Contract Management Division
Idaho Operations Office

cc:

The Honorable Kay Granger
Ranking Member
Committee on Appropriations
U.S. House of Representatives

The Honorable Patrick Leahy
Vice Chairman
Committee on Appropriations
U.S. Senate

The Honorable Mike Simpson
Ranking Member
Subcommittee on Energy and Water Development
U.S. House of Representatives

The Honorable Dianne Feinstein
Ranking Member
Subcommittee on Energy and Water Development
U.S. Senate

BUSINESS SENSITIVE

From: [Mason Baker](#)
To: [Payne, Mark B](#)
Cc: [Scott Fox](#); [Nathan Hardy](#); [Bates, Melissa \(HQ\)](#); [Olson, Suzette M](#)
Subject: [EXTERNAL] Re: UAMPS Draft Award Documents
Date: Tuesday, October 6, 2020 11:34:57 AM
Attachments: [UAMPS Edits-Award Cover Page as of 9-30-2020.pdf](#)
[b1- Budget Pages.pdf](#)
[UAMPS edits-a- Special Terms and Conditions DE-NE0008935 - 000.pdf](#)

Mark,

Please find attached UAMPS comments to this set of documents. In speaking to Melissa, I understand some of the requested changes highlighted in the attached have been made, but I want to flag them nevertheless. Please share these revisions when you can. The main suggested changes relate to clarify that the Award will be for ten years and making corresponding changes in the three attached documents. That said, there are few other suggested changes and questions unrelated to the term of the agreement.

UAMPS does not have changes on the other documents.

As always, please let me know if you have any questions regarding the attached comments.

Thanks,

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

From: "Payne, Mark B" <PAYNEMB@id.doe.gov>
Date: Friday, October 2, 2020 at 10:27 AM
To: Mason Baker <mason@uamps.com>
Cc: UAMPS Fox <scott@uamps.com>, Nathan Hardy <Nate@uamps.com>, "Bates, Melissa (HQ) (HQ)" <melissa.bates@nuclear.energy.gov>, "Olson, Suzette M" <olsonsm@id.doe.gov>
Subject: UAMPS Draft Award Documents

Hi Mason,

Attached are the draft UAMPS award documents for the new DOE financial assistance award. The b6 - Special Conditions document is being updated/revised by DOE General Council. I'm hoping to receive the revised b6 document later today or possibly Monday. I will forward you the b6 document as soon as I receive it.

As the award date is approaching quickly please review the documents and send me any comments or questions ASAP so the award date is not delayed, again.

Thanks for your assistance,

Mark

Mark B. Payne, Contracting Officer
U.S. Department of Energy – Idaho Operations Office
P: (208) 526-3127; F: (208) 526-5548
Email: paynemb@id.doe.gov

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Attachment 1, consisting of Sixteen (16) pages,
is withheld in full under Exemption B4.

**U.S.Department of Energy
Federal Assistance Budget Information**

1. Award Number: DE-NE0008935	2. Awardee Name and Address: CFPP, LLC 155 North 400 West, Suite 480 Salt Lake City, UT84103
3. Mod Number: 000	
4. Project Title: Commercialization and deployment of the First NuScale SMR in the U.S. - The Carbon Free Power Project (CFPP)	5. Project Period: (b)(4)

SECTION A - BUDGET SUMMARY

Budget Period	Start Date	End Date	Federal	Non-Federal	Total Approved Budget	Total Obligated Federal Funds
1	(b)(4)	(b)(4)	(b)(4)			
TOTALS			(b)(4)			

SECTION B - BUDGET CATEGORIES

Object Class Categories	Period 1	Total
Personnel	(b)(4)	(4)
Fringe Benefits		
Travel		
Subcontracts		
Indirect Costs		
Subrecipients		
Consulting Services		
NRC Fees		
Total		

SECTION C - FFRDC FUNDING

Share	Period 1	Total
DOE Share	(b)(4)	(4)
Awardee Cost Share		
FFRDC		
Total		

Note 1: All estimated future budget allocations are subject to availability of funds.

Note 2: (b)(4)

Attachment 3, consisting of eighteen (18) pages,
is withheld in full under Exemption B4.

From: [Bubb, James](#)
To: [Payne, Mark B](#); [Mason Baker](#)
Cc: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] RE: Updated budget document
Date: Tuesday, October 6, 2020 1:11:29 PM
Attachments: [FOA Summary Tables Rev 4.xlsx](#)

Please replace the attached spreadsheet for the one I attached previously. I accidentally grabbed the old spreadsheet.

Jim

From: Bubb, James
Sent: Tuesday, October 6, 2020 3:54 PM
To: 'Payne, Mark B' <PAYNEMB@id.doe.gov>; Mason Baker <mason@uamps.com>
Cc: 'Bates, Melissa (HQ)' <melissa.bates@nuclear.energy.gov>
Subject: RE: Updated budget document

Mark,

The bullets below summarize the questions and answers we just discussed on the phone.

- For the difference of \$499 you mentioned below, we both agreed that disconnect is negligible in overall project (the likely explanation is a rounding difference). We agreed to make no changes to the 'Budget Pages' sheet.
- The \$420M of FFRDC of have been removed from the 'Other Direct Costs' line in the attached revised 'FOA Summary Table'. As we discussed, the impact of this means that when the indirect percentages are eventually established, it will be calculated on a different Indirect Cost Basis, and the approved percentages will be very slightly different than shown in the earlier FOA Summary Table. In sum, the estimated Indirect Costs will be unaffected, just the arithmetic that will be eventually used to establish them.

In summary, I don't think there are any numbers in your 'Budget Pages' document/table that need to be changed. That might limit the whiplash that we might create by issuing slightly different numbers. Let me know if you see it differently.

Let me know if you need anything else or have further questions.

Jim

From: Payne, Mark B [<mailto:PAYNEMB@id.doe.gov>]
Sent: Tuesday, October 6, 2020 2:16 PM
To: Mason Baker <mason@uamps.com>
Cc: Bubb, James <jbubb@mpr.com>

Subject: Updated budget document

Mason and Jim

OK, a couple of things on the budget document. I went back and reviewed the budget numbers in the latest UAMPS budget document. I had a small error on the sheet. Attached is the revised budget document, I used the latest UAMPS Rev 3 budget document.

The revised budget document shows the total for the two year project at \$107,253,464. When the IDC costs of \$1,719,570 is added in the indirect cost pool the total comes to \$108,973,034. However, the FOA Summary table rev3 on line 45 column E and F add up to \$108,972,535, a difference of \$499 (very close).

Also, the UAMPS budget sheet shows \$210,000 FFRDC cost, for both year one and year two, in the direct cost total. The DOE doesn't pay indirect costs on the FFRDC costs, The DOE also doesn't obligate the FFRDC funds into the award documents. So the \$210,000 for the FFRDC must be removed from the budget document as a direct cost , thus the indirect cost pool must also be reduced by \$210,000 for each one year budget period.

Please call me on my cell phone if this doesn't make sense. Cell # is (b) (6)

Thanks,

Mark

Mark B. Payne, Contracting Officer
U.S. Department of Energy – Idaho Operations Office
P: (208) 526-3127; F: (208) 526-5548
Email: paynemb@id.doe.gov

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(b)(4)

(b)(4)

(b)(4)

(b)(4)

(b)(4)

(b)(4)

Table 1. Hourly Billable Rates

Organization	(FY20)	BP 1 (FY21)	BP 2 (FY22)
B&M	(b)(4)	(4)	
Chapman & Cutler			
Engleman Fallon			
Energy Northwest			
Givens Pursley			
Hogan Lovells			
Kutake Rock			
Mercer Thompson			
MPR Associates			
Redstone Consulting			

Table 2. Consultant Services Detail

Item	BP 1 (FY21)	BP 2 (FY22)
Accounting	(b)(4)	(4)
Audit Services		
Award Management		
<i>Subtotal</i>		
Legal and Consulting		
<u>Estimated Hours by Organization</u>		
Chapman		
Given and Pursley		
Hogan Level		
Mercer Thompson		
<i>Subtotal</i>		
Community Affairs		
Public Relations		
<i>Subtotal</i>		
Total Consultant Services		

Table 3. Owners Engineering Detail

Estimated Hours by Scope	BP 1 (FY21)	BP 2 (FY22)
DOE LG and Financing OE Reports	(b)(4)	(4)
Project Management		
Scheduling		
Document Management System		
Risk Management		
Engineering and Design Review		
QA/QC		
Project Cost Tracking		
Procurement Management		
Construction Management		
Operations Procedures Review		
Startup and Commissioning Support		
Total Owner's Engineering		

Table 4. Other Owner's Cost Detail

Item	BP 1 (FY21)	BP 2 (FY22)
Permit/Fees	(b)(4)	(4)
Owner Permits		
Agency Fees		
<i>Subtotal</i>		
Site Utilities		
Electrical, Waste, etc.		
<i>Subtotal</i>		
Security		
Site Security		
<i>Subtotal</i>		
Operator Consulting		
<u>Estimated Hours by Organization</u>		
Energy Northwest		
<i>Subtotal</i>		
Total Consultant Services		

Table 5. NRC Fees Detailed Fee

Estimated Hour	BP 1 (FY21)	BP 2 (FY22)	(b)(4)
Pre-Engagement Discussions	(b)(4)		
<i>Total NRC Fees</i>			

Table 6. COLA Development Summary

Item	BP 1 (FY21)	BP 2 (FY22)
Labor	(b)(4)	
Material & Expenses		
Subcontractor		
Indirects		
Fee/Contingency		
Total COLA Development		

Table 7. COLA Development - Organizational Breakdown

Item	BP 1 (FY21)	BP 2 (FY22)
Fluor	(b)(4)	
NuScale		
RIZZO		
ABSG		
TBD (Env. Report)		
S&L		
Total COLA Development		

Table 8. EPC Engineering Summary

Item	BP 1 (FY21)	BP 2 (FY22)
Labor	(b)(4)	

Material & Expenses
Subcontractor
Indirects
Fee/Contingency
<i>Total EPC Engineering</i>

(b)(4)

Table 9. EPC Engineering - Organizational Breakdown

Item	BP 1 (FY21)	BP 2 (FY22)
Fluor		
NuScale		
<i>Total EPC Engineering</i>		

(b)(4)

Overall Project Milestones

Milestone Name	Date
Submit DCA	March-17
Power Sales Contracts Executed	July-19
Start Standard Plant Design	November-19
EPC Contract Development Agreement Executed	September-20
UAMPS Decision to Proceed	October-20
NTP for R-COLA Contract	October-20
NTP for EPCDA TO 1 - Start Class 3 Estimate	October-20
Initiate CFPP Financing - round 1	October-20
EPC Term Sheet Due	January-21
Site Layout Plan Drafted	January-21
Completion of Site Redress Plan	February-21
Conditional DOE Loan Guarantee Commitment	March-21
NPM Design Ready for Production LLM	April-21
Preliminary design of initial cooling system completion	July-21
Design Certification Issued	August-21
NTP for Operational Readiness Program	October-21
Deliver Class 3 Estimate and ECT	October-21
Deliver EPC Contract Proposal	September-21
SSHAC Final Inputs to start Seismic Evaluation	December-21
UAMPS Go-no go from Class 3 Estimate	December-21
LNTP 1 – Site Preparation Planning & Design - Start TO 2 - Class 2 Estimate	December-21
EPC Contract Execution	October-21
Preliminary Assessment of Hazard-Significant Issues	May-22
Preliminary Hazard Calculation and Sensitivity Analyses, Preliminary GMRS	May-22
Completion of Administrative and Financial Information Report	September-21
Completion of Need for Power analysis	May-22
Site Security Plan Drafted	February-22
Site Emergency Plan Drafted	February-22
Final Seismic Source Characterization Model, Final Ground Motion Characterization	July-22
Final Hazard Calculation, Final GMRS	July-22
NRC Readiness Review	July-22
Start of NPM Payments	August-22
LNTP 3 – Procure Long Lead Materials for NPM	August-22
Site Environmental Report Drafted	September-22
Complete Departures Report	October-22
Completion of Geological and Geotechnical Investigations	September-22
Submit SDA to NRC	October-22
Final PSHA Report	October-22
Final Safety Analysis Report Drafted	October-22
CFPP R-COL Application Submittal	October-22
UAMPS Go-no go from COLA Submittal	October-22
Deliver Class 2 Estimate and ECT	October-22
UAMPS Go-no go from Class 2 Estimate	December-22
LNTP 4 – Commence NPM Manufacturing	July-23
LNTP 2 – Site Preparation	August-23
Begin Early Site Mobilization	August-23
Fuel Contract PFSDD – Non-binding Notification to Delivery	November-23
Delivery of Class 1 Estimate	February-24
Class 1 Estimate review and finalize	May-24
SDA Approval from NRC	December-24
CFPP NRC Issues R-COL	June-25
Operational & Technical Programs Accreditation (nit)	April-29
Final Notice to Proceed – FNTP	June-25
Financial Close of DOE Loan Guarantee Backed Documents	June-25
First Safety Related Concrete	October-25
Fuel Contract FFSDD – Binding Notification to Delivery	January-27
Building and systems ready to install 1st module	November-28
RXB Mechanical Complete	November-28
1st NPM ready for installation	December-28
1st Module Ready for Fuel Load	March-29
Receipt of Fuel (nit)	May-29
NPM1 - COD	July-29
NPM2 - COD	August-29
NPM3 - COD	October-29
NPM4 - COD	November-29
NPM5 - COD	March-30
NPM6 - COD	April-30
NPM7 - COD	April-30
NPM8 - COD	May-30
NPM9 - COD	June-30
NPM10 - COD	July-30
NPM11 - COD	August-30
NPM12 - COD	September-30

Escalation: (b)(4)

Role	FY20 Total Salary & Fringe Rate
CHIEF EXECUTIVE OFFICER	(b)(4)
CHIEF OPERATING OFFICER	
CHIEF FINANCIAL OFFICER	
MANAGER OF CORPORATE & MEMBER RELATIONS	
CONTROLLER	
GOVERNMENT AFFAIRS DIRECTOR	
ASSISTANT PROJECT MANAGER	
DIRECTOR OF POWER METRICS	
ADMINISTRATIVE ASSISTANT	
ACCOUNTANT	
ACCOUNTING SPECIALIST	

Other Personnel	BP 1	BP 2	BP 3	BP 4	BP 5	BP 6	BP 7	BP 8	BP 9	Escalation	2%
Estimated Hours	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29		
CHIEF EXECUTIVE OFFICER	(b)(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
CHIEF OPERATING OFFICER											
CHIEF FINANCIAL OFFICER											
MANAGER OF CORPORATE & MEMBER RELATIONS											
CONTROLLER											
GOVERNMENT AFFAIRS DIRECTOR											
ASSISTANT PROJECT MANAGER											
DIRECTOR OF POWER METRICS											
ADMINISTRATIVE ASSISTANT											
ACCOUNTANT											
ACCOUNTING SPECIALIST											
Costs from Salary											
CHIEF EXECUTIVE OFFICER	(b)(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
CHIEF OPERATING OFFICER											
CHIEF FINANCIAL OFFICER											
MANAGER OF CORPORATE & MEMBER RELATIONS											
CONTROLLER											
GOVERNMENT AFFAIRS DIRECTOR											
ASSISTANT PROJECT MANAGER											
DIRECTOR OF POWER METRICS											
ADMINISTRATIVE ASSISTANT											
ACCOUNTANT											
ACCOUNTING SPECIALIST											
Costs from Fringe											
CHIEF EXECUTIVE OFFICER	(b)(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
CHIEF OPERATING OFFICER											
CHIEF FINANCIAL OFFICER											
MANAGER OF CORPORATE & MEMBER RELATIONS											
CONTROLLER											
GOVERNMENT AFFAIRS DIRECTOR											
ASSISTANT PROJECT MANAGER											
DIRECTOR OF POWER METRICS											
ADMINISTRATIVE ASSISTANT											
ACCOUNTANT											
ACCOUNTING SPECIALIST											
Total Other Personnel Cost											

Salary
Fringe

Rate Escalation: 2%

Escalation: (b)(4)

Role	FY20 Rates (\$/hr)
NRC Fees	(b)(4)
Project Manager	(b)(4)
Pre-Application Meetings	(b)(4)
Readiness Review	(b)(4)
Env Review - NRC Staff	(b)(4)
Env Review - PNNL	(b)(4)
Safety Review	(b)(4)
ASLB	(b)(4)

Other Personnel	BP 1	BP 2	BP 3	BP 4	BP 5	BP 6	BP 7	BP 8	BP 9
Estimated % Hours	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
Project Manager	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Pre-Application Meetings	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Readiness Review	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Env Review - NRC Staff	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Env Review - PNNL	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Safety Review	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
ASLB	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Estimated Hours	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Project Manager	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Pre-Application Meetings	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Readiness Review	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Env Review - NRC Staff	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Env Review - PNNL	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Safety Review	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
ASLB	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Costs	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Project Manager	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Pre-Application Meetings	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Readiness Review	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Env Review - NRC Staff	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Env Review - PNNL	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Safety Review	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
ASLB	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)
Total NRC Fees	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)	(b)(4)

Costs

Output from Proposal - CL IV 1 Unit Rate Est. Units Cost (\$)

Label Output from Proposal - CLIV 2 Unit Rate Est. Units Cost (\$)
Label

(b)(4)

Material & Expenses Cost Material & Expenses Cost

(b)(4)

Subcontractor Costs Subcontractor Costs

(b)(4)

(b)(4)

Output from Proposal - TO 1

Unit Rate Est. Units Cost (\$)

Labor

(b)(4)

(b)(4)

Material & Expenses Cost

(b)(4)

Subcontractor Costs

(b)(4)

From: [Payne, Mark B](#)
To: [Mason Baker](#)
Cc: [Bates, Melissa \(HQ\)](#); [Bubb, James](#); [Olson, Suzette M](#); [Bluth, Trevor M](#)
Subject: Revised UAMPS award documents
Date: Tuesday, October 6, 2020 4:15:29 PM
Attachments: [a- Special Terms and Conditions DE-NE0008935 - 000.pdf](#)
[b1- Budget Pages as of 10-6-2020.pdf](#)
[Award Cover Page as of 10-6-2020.pdf](#)

Hi All,

Attached is the revised Award Cover Page, Budget Pages, and Special Terms and Conditions document.

I believe I have captured all inputs from the CO, DOE-MA, NE-5, and UAMPS.

Please review one more time. If everyone is good to go with the documents I'll forward onto DOE MA for their review and approval.

Per the CO's direction the following clauses are being added to the Special Terms and Conditions Document:

1. PROVISIONAL INDIRECT RATES
2. TECHICAL PROJECT OFICER/PROJECT MANAGER AUTHORITY
3. CONDITIONAL AVAILABILITY OF FUNDS
4. FFRDC ADVANCE UNDERSANDING
5. HISTORIC PRESERVATION

Thanks,

Mark

Mark B. Payne, Contracting Officer
U.S. Department of Energy – Idaho Operations Office
P: (208) 526-3127; F: (208) 526-5548
Email: paynemb@id.doe.gov

Attachment 1, consisting of eighteen (18) pages, is withheld in full under Exemption B4.

**U.S.Department of Energy
Federal Assistance Budget Information**

1. Award Number: DE-NE0008935	2. Awardee Name and Address: CFPP, LLC 155 North 400 West, Suite 480 Salt Lake City, UT84103
3. Mod Number: 000	
4. Project Title: Commercialization and deployment of the First NuScale SMR in the U.S. - The Carbon Free Power Project (CFPP)	5. Project Period: (b)(4)

SECTION A - BUDGET SUMMARY

Budget Period	Start Date	End Date	Federal	Non-Federal	Total Approved Budget	Total Obligated Federal Funds
1	(b)(4)	(b)(4)	(b)(4)			
TOTALS			(b)(4)			

SECTION B - BUDGET CATEGORIES

Object Class Categories	Period 1	Total
Personnel	(b)(4)	
Fringe Benefits		
Travel		
Subcontracts		
Other Direct		
Indirect Costs		
Subrecipients		
Consulting Services		
NRC Fees		
Total		

SECTION C - FFRDC FUNDING

Share	Period 1	Total
DOE Share	(b)(4)	
Awardee Cost Share		
FFRDC		
Total		

Note 1: All estimated future budget allocations are subject to availability of funds.

Note 2: FFRDC funding will be provided directly to the lab and will not be available to Awardee.

Attachment 3, consisting of sixteen (16) pages, is withheld in full under Exemption B4.

From: [Bates, Melissa \(HQ\)](#)
To: [Mason Baker](#)
Subject: FOA Summary Tables Rev 3_modified profile.xlsx
Date: Wednesday, October 7, 2020 2:32:00 PM
Attachments: [FOA Summary Tables Rev 3_modified profile.xlsx](#)

	Total	COLA Prep & Design Completion			Site Prep & COLA Review		Construction			Startup & COD			
		BP1 FY21 (Note 1)	BP2 FY22 (Note 1)	BP3 FY23 (Note 1)	BP4 FY24	BP5 FY25	BP6 FY26	BP7 FY27	BP8 FY28	BP9 FY29	FY30 (Included)	FY30 (Not Included)	FY31
Total Project Spend (Note 3)													
UAMPS Cost													
UAMPS IDCs (Note 3)													
DOE Funding													
Period DOE Cost Share													
Cumulative Award Cost Share													

(b)(4)

(b)(4)

From: [Mason Baker](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] Re: cost share percentage
Date: Friday, October 9, 2020 12:26:02 PM

Just one small nit in blue below perhaps gratuitous. Otherwise, looks good to me.

Mason Baker
General Counsel

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UAMPS Legal (b)(4)

From: "Bates, Melissa (HQ)" <melissa.bates@nuclear.energy.gov>
Date: Friday, October 9, 2020 at 1:14 PM
To: Mason Baker <mason@uamps.com>
Subject: RE: cost share percentage

I changed it around a little bit. What are your thoughts on the following?

Q: Why is the federal cost share percentage higher than 50% for the first five years of the award?

A: In negotiations with UAMPS, a request was made for DOE to front load the federal cost share portion of the award such that the federal funding could sufficiently de-risk the early phases of the project. Given this project is proposing to pursue a first-of-a-kind demonstration and deployment of a new nuclear technology, and that the nuclear industry does not have a good track record for meeting its cost or schedule targets, CFPP, LLC's members are looking to obtain a higher degree of certainty that this project can meet its cost and schedule goals before bearing the majority of the project risk.

Over the next three years, the project will have a heavy focus on (1) refining the site specific engineering for the CFPP, (2) refining the cost estimate for the project to have a greater degree of certainty (to ensure it can meet UAMPS cost objectives for the project), and working on the development of the COLA for NRC's review. During this timeframe, the federal cost share percentage on the award is approximately 79%. By pursuing a higher cost share percentage, the Government is allowing the site specific engineering work and COLA development work to proceed

in parallel, thereby setting the project up to potential initiate operations in FY 2030.

Further, in years four and five of the award, in an effort to maintain a FY2029/FY2030 operation date, some site preparation activities and long lead time procurements will need to initiate before a class 1 estimate can be finalized.

In summary, a federal cost share percentage of greater than 50% for the first five years of the award is required in order for a first of a kind demonstration and deployment to be realized within a reasonable commercial deployment schedule.

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

From: Mason Baker [mailto:mason@uamps.com]

Sent: Friday, October 09, 2020 2:36 PM

To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>

Subject: [EXTERNAL] cost share percentage

In discussions with UAMPS, DOE found it appropriate to front load the cost share percentage in the first five years of the award to achieve the objective of the award to provide for the successful commercialization of the NuScale technology. Over the next three years, there will be a heavy focus, through refining the site specific engineering for the CFPP, on refining the cost estimate for what it will ultimately cost to deploy the CFPP to meet UAMPS cost objectives, and, at the same time, work will be proceeding on developing the COLA to be submitted to the NRC. During this time period the cost share percentage is 79%, this cost share percentage is acceptable from the DOE's perspective as it appropriately balances the first of a kind risk by allowing the site specific engineering work and COLA work to proceed in a parallel fashion. A lower cost share percentage would not accommodate proceeding with these costly work scopes in a fashion that would be acceptable to a utility, and UAMPS has specifically articulated this concern and DOE has found this perspective to be reiterated by other utilities. After this period the cost share percentage continues to be high (73%), here again, this cost share is appropriate because the Awardee's expenditures and consequently its exposure to cost is increasing as more significant work is occurring such as site preparation work to allow for the contemplated construction to occur as expeditiously as possible after the NRC license has been approved for the Project. Generally speaking, the high levels of cost sharing is necessary to allow for this type of first of kind project to be developed with certain scopes of work occurring, at-risk, in a parallel fashion in order to achieve a reasonable commercial deployment schedule that will work for a utility's planning considerations such as UAMPS.

Thoughts?

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

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This message does not originate from a known Department of Energy email system. Use caution if this message contains attachments, links or requests for information.

From: [Mason Baker](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] Re: Question for Response
Date: Tuesday, October 13, 2020 1:23:11 PM

Proposed response, please let me know if you have any questions.

UAMPS and NuScale have agreed to provide NuScale with the right to be conveyed the CFPP Project Assets, including both IP and physical assets, should UAMPS terminate its development of the CFPP. The rationale for providing NuScale with these conveyance rights is to allow for NuScale, if NuScale elects to do so, to complete the development of the CFPP. In the event that NuScale exercises these rights, then it is envisioned that NuScale will continue forward with the DOE Award made to CFPP LLC, and, consequently, there will not be a need for DOE to exercise its right to be conveyed the CFPP Project Assets in order to effectuate any required true-up of the cost share based on DOE having paid more than 23% of the total project costs at the time of a UAMPS termination. In other words, the DOE Award and CFPP development will continue forward under NuScale's management, and the true-up of cost share percentage issue giving rise to DOE's rights over the CFPP Project Assets will not have ripened. Further, NuScale and UAMPS have previously negotiated this right over the CFPP Project Assets in favor of NuScale as part of the Development Cost Reimbursement Agreement, which has NuScale reimbursing a certain percentage of UAMPS development costs should there be a failure of the Economic Competitiveness Test. A change that would have DOE taking first position on the rights over the CFPP Project Assets would fundamentally alter the commercial agreement between UAMPS and NuScale as set forth in the Development Cost Reimbursement Agreement. Lastly, an alternative formulation whereby DOE is providing first right over the CFPP Project Assets NuScale's ability to proceed forward with completing the developing the CFPP would be constrained by DOE's first right over these assets.

Best,

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

From: "Bates, Melissa (HQ)" <melissa.bates@nuclear.energy.gov>

Date: Tuesday, October 13, 2020 at 11:49 AM

To: Mason Baker <mason@uamps.com>

Subject: Question for Response

Mason,

We received the following question for response:

- For the IP and assets, why does NuScale get first right of refusal instead of the federal government?

Could you please put together a draft response? If I could get a draft response by tomorrow, that would be great.

Thanks,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

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From: [Mason Baker](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] FW: DOE Multi-year cost share award final Oct 13 2020
Date: Tuesday, October 13, 2020 2:52:15 PM
Attachments: [DOE Multi-year cost share award final Oct 13 2020.docx](#)

Per our call.

Thanks,

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

From: LaVarr Webb <LWebb@exoro.com>
Date: Tuesday, October 13, 2020 at 3:47 PM
To: Mason Baker <mason@uamps.com>, Jackie Coombs <jackie@uamps.com>
Subject: DOE Multi-year cost share award final Oct 13 2020

Attached is the updated press release.
Jackie, you could add UAMPS logo?
--LaVarr

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Use caution if this message contains attachments, links or requests for information.

DOE cost-share award of \$1.355 billion is approved for UAMPS' Carbon Free Power Plant

For Immediate Release

Date

Contact: LaVarr Webb

lwebb@utahpolicy.com

(b) (6)

Salt Lake City UT -- The U.S. Department of Energy has approved a multi-year cost-share award to the Utah Associated Municipal Power Systems (UAMPS) for the development and construction of the Carbon Free Power Project (CFPP), a 720 MWe NuScale power plant to be located at the U.S. Department of Energy's Idaho National laboratory site.

The award demonstrates the importance of the CFPP, which will be the first small modular nuclear reactor (SMR) project in the United States. It will also be the first SMR project in the world to have undergone the rigorous "gold standard" safety and operations evaluations required and conducted by the U.S. Nuclear Regulatory Commission.

The award also demonstrates DOE's commitment to accelerate the decarbonization of electrical generation nationwide and globally, and to support stable, carbon-free electrical supply to complement intermittent renewable energy. The project will also help maintain U.S. leadership in nuclear innovation and development.

The \$1.355 billion award, allocated over 10 years, funds the one-time costs for the first-of-a-kind project reflective of what second and subsequent plants would cost. This ensures that the levelized cost of energy target price of \$55 MWh can be achieved at a level of risk UAMPS can manage. That price makes the CFPP competitive with other non-intermittent dispatchable energy sources like combined cycle natural gas plants, but without greenhouse gas emissions. It will ensure long-term affordable energy to UAMPS member participants while avoiding exposure to greenhouse regulation and compliance costs.

The award, which is subject to annual congressional appropriations, will also reduce project risk for UAMPS members because it will be frontloaded to pay 79 percent of project costs for the next three years.

"We appreciate this tremendous vote of confidence in CFPP by the Department of Energy," said Douglas Hunter, UAMPS CEO & General Manager. "It is entirely appropriate for DOE to help de-risk this first-of-a-kind, next-generation nuclear project. This is a great example of a partnership with DOE to lower the cost of introduction of transformative advanced nuclear technology that will provide affordable, carbon-free electricity all over the country and the world. This project is much bigger than UAMPS itself."

Hunter said UAMPS members are especially supportive of the project because it will complement and enable additional intermittent renewable energy, especially wind and solar, that are being added to member energy portfolios.

“The ideal world for utility companies and their customers, and the most cost-effective,” said Hunter, “are portfolios containing a high percentage of low-cost renewables, backed up by stable, carbon-free nuclear energy that is available 24 hours a day, 365 days a year.”

The 12 small modular reactors in the project will provide the flexibility to ramp up and down as needed to follow load and complement intermittent renewable supply.

Energy from the project will replace electric generation from coal plants that are nearing the end of their life cycles. The CFPP, combined with UAMPS renewable projects, will enable many members to completely decarbonize their energy portfolios.

The CFPP has been strongly supported by both the Obama and Trump administrations, and has broad support in the U.S. Congress. The SMR technology will help UAMPS’ participating member communities, states, and regions to meet their goals to de-carbonize the electrical grid.

About the Carbon Free Power Project. CFPP is a 720-megawatt nuclear plant to be located at the Idaho National Laboratory near Idaho Falls, Idaho. It will be comprised of 12 60-megawatt nuclear power modules to be provided by NuScale Power based in Portland, Oregon. Electricity from the plant will be distributed to customers of 33 UAMPS member utilities in five states. Other western utilities are expected to join the project in the future.

About UAMPS. Utah Associated Municipal Power Systems is an energy services interlocal agency of the State of Utah, established in 1980. As a project-based consortium, UAMPS provides a variety of power supply, transmission and other services to its 47 members, which include public power utilities in six western states: Utah, California, Idaho, Nevada, New Mexico, and Wyoming.

From: [Bates, Melissa \(HQ\)](#)
To: [Mason Baker](#)
Subject: FW: Post-Award Administration, Award Number DE-NE0008935
Date: Friday, October 16, 2020 7:22:00 AM
Attachments: [C-007 Post Award Letter DE-NE0008935 - 000.pdf](#)
[A-016 Point of Contact Sheet DE-NE0008935 - 000.pdf](#)

Mason,

Just making sure you received this. This may help with your ability to access the other files.

Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell (b) (6)

From: paynemb@id.doe.gov [mailto:paynemb@id.doe.gov]
Sent: Friday, October 16, 2020 10:02 AM
To: shauna@uamps.com
Cc: mason@uamps.com; Sowinski, Thomas <thomas.sowinski@nuclear.energy.gov>; Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Kincaid, Kendall L <kincaikl@id.doe.gov>
Subject: Post-Award Administration, Award Number DE-NE0008935

This message is to advise that our office has finalized award DE-NE0008935. You can access the award documents through the FedConnect portal at www.fedconnect.net.

If you have not yet registered with FedConnect, please do so. Once you have registered under DUNS number 117683168, you will be able to access the award documents in FedConnect. You will need to join the "team" for this award in FedConnect. This will allow you to acknowledge receipt of this award and be notified via email of any future modifications or special messages regarding the award.

Feel free to contact me with any questions regarding the award. I have attached a letter with important information regarding your award. I have also included a Point of Contact sheet for your reference. Please let me know if any of your contact information is not accurate.

Sincerely,

Mark B Payne
U.S. Department of Energy
Idaho Operations Office
1955 Fremont Ave, MS 1221
Idaho Falls, ID 83415
208 526-3127



U.S. Department of Energy
Idaho Operations Office
Procurement Services Division
1955 Fremont Avenue
Idaho Falls, ID 83415

Document 21 (Attachment 1)

10/13/2020

Ms. Shauna Sowles
CFPP, LLC

SUBJECT: Post-Award Administration, Award Number DE-NE0008935

Dear Ms. Shauna Sowles

The purpose of this letter is to discuss post-award administrative matters. The award number DE-NE0008935 should be correctly entered all correspondence related to the award.

Compliance with administrative aspects of your award is extremely important. Noncompliance may result in withholding payments, suspension of the award, termination for cause, disapproval of renewal applications, recovery of funds and tangible property, or a determination that your organization is not responsible.

Reporting requirements are contained in the award documents. It is expected that your institution will monitor and submit required reports without reminder letters from this office.

Payment will be made by reimbursement through ACH.

Closeout: At the conclusion of the project, your award must be processed for financial and physical closeout. The appropriate documents will be forwarded to you at that time. These documents are due back to Procurement Services Division within 90 calendar days after the project completion date.

As the DOE Administrator, please contact me if you have any questions concerning this award or the necessary administrative actions. I can be reached at 208 526-3127, or e-mail paynemb@id.doe.gov.

Sincerely,

Mark B Payne
Contract Specialist

CFPP, LLC

Award Number: DE-NE0008935

Point of Contact Sheet

DOE CONTACTS	RECIPIENT CONTACTS
Contract Specialist Mark B Payne Telephone Number: 208 526-3127 Email: paynemb@id.doe.gov	Business Officer Shauna Sowles Telephone Number: (b) (6) Email: shauna@uamps.com
DOE Project Manager/Initiator Thomas Sowinski Telephone Number: 301 903-0112 Email: thomas.sowinski@nuclear.energy.gov	Principal Investigator (PI) Mason Baker Telephone Number: (b) (6) Email: mason@uamps.com
HQ Program Manager Melissa Bates Telephone Number: 301 903-0930 Email: melissa.bates@nuclear.energy.gov	Co-Principal Investigator Telephone Number: Email:
Technical Project Officer Melissa Bates Telephone Number: 301 903-0930 Email: melissa.bates@nuclear.energy.gov	Financial Report POC Shauna Sowles Telephone Number: (b) (6) Email: shauna@uamps.com
Technical Monitor Telephone Number: Email:	Additional POC Nathan Hardy Telephone Number: (b) (6) Email: nate@uamps.com
Contracting Officer Trevor M Bluth Telephone Number: 208 526-3277 Email: bluthm@id.doe.gov	
Budget Specialist Kendall Kincaid Telephone Number: 208 526-4965 Email: kincaikl@id.doe.gov	

From: [Engel, Jackie](#)
To: [Payne, Mark B](#)
Cc: [Bates, Melissa \(HQ\)](#); [Feldman, Karin A](#)
Subject: [EXTERNAL] RE: DE-NE0008928 - Additional Obligated Funds
Date: Thursday, October 15, 2020 2:22:27 PM
Attachments: [image001.png](#)

Hi Mark,

Thank you for the update and for turning our requests around so efficiently!

Sincerely,



Jackie Engel
Manager, Financial Compliance

email: jengel@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

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From: Payne, Mark B <PAYNEMB@id.doe.gov>
Sent: Thursday, October 15, 2020 2:02 PM
To: Engel, Jackie <jengel@nuscalepower.com>
Cc: Bates, Melissa (HQ) (HQ) <melissa.bates@nuclear.energy.gov>; Feldman, Karin <kfeldman@nuscalepower.com>
Subject: RE: DE-NE0008928 - Additional Obligated Funds

Amendment 0006 should be in NuScale's Fed Connect account shortly. \$17.5M was added to the award!

Thanks,

Mark

Mark B. Payne, Contracting Officer
U.S. Department of Energy – Idaho Operations Office
P: (208) 526-3127; F: (208) 526-5548
Email: paynemb@id.doe.gov

From: Engel, Jackie <jengel@nuscalepower.com>
Sent: Thursday, October 15, 2020 2:51 PM
To: Payne, Mark B <PAYNEMB@id.doe.gov>
Cc: Bates, Melissa (HQ) (HQ) <melissa.bates@nuclear.energy.gov>; Olson, Suzette M <olsonsm@id.doe.gov>; Feldman, Karin <kfeldman@nuscalepower.com>

Subject: DE-NE0008928 - Additional Obligated Funds

Hi Mark,

Do you any information on the status of additional obligated funds for award DE-NE0008928? Has funding reached DOE-Idaho? If so, are you waiting for anything from us?

Best Regards,



Jackie Engel
Manager, Financial Compliance

email: jengel@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

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Use caution if this message contains attachments, links or requests for information.

From: [Mason Baker](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] Fwd: Final Press Release and Talking Points
Date: Thursday, October 15, 2020 7:30:18 PM
Attachments: [ATT00001.htm](#)
[DOE Multi-year cost share award Oct 16, 2020 Final.docx](#)
[ATT00002.htm](#)
[DOE Multi-year cost share award talking points Oct 16, 2020 Final.pdf](#)
[ATT00003.htm](#)

FYI. The attachments track what you've vetted but I'm resending out of an abundance of caution.

Thanks,

Mason Baker

General Counsel

This document is intended only for the use of the individual or entity to whom it is addressed and may contain information that is privileged and confidential, or that constitutes work product and is exempt from disclosure under applicable law. If you are not the intended recipient of the employee or agent of the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us by telephone and destroy this document.

UAMPS Legal (b) (6)

Begin forwarded message:

From: Jackie Coombs <jackie@uamps.com>
Date: October 15, 2020 at 8:26:55 PM MDT
To: Mason Baker <mason@uamps.com>
Cc: LaVarr Webb <lwebb@exoro.com>, Doug Hunter <doug@uamps.com>
Subject: **Final Press Release and Talking Points**

Mason,

Attached are the final press release and talking points, We stand ready to deploy tomorrow morning upon your notifications.

LaVarr will send the press release to:

- Salt Lake Tribune
- Deseret News
- Post Register
- Utah Associated Press (they will issue to daily and weekly papers)

He will also issue to the NEI communication team (key players noted below) which will amplify the release:

- NuScale: Diane Hughes, Tiffany Austin and Kelly Conroy
- INL: Laurie Scheele, Glen Tait
- Fluor: Brian Mershon
- NEI: Mary Pietrzyk, Kelly Bielen, Mary Love

I will issue the press release, talking points and social media post to the participants and governing boards.

Jackie Coombs
Manager of Corporate and Member Relations
Utah Associated Municipal Power Systems
155 North 400 West, Suite 480
Salt Lake City, Utah 84103
Phone: (801) 214-6402
Cell: (b) (6)

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DOE cost-share award of \$1.355 billion is approved for UAMPS' Carbon Free Power Project

For Immediate Release

Date: October 16, 2020

Contact: LaVarr Webb

lwebb@utahpolicy.com

(b) (6)

Salt Lake City UT -- The U.S. Department of Energy has approved a multi-year cost-share award to a new special purpose entity named the Carbon Free Power Project, LLC (CFPP, LLC) (an entity wholly owned by Utah Associated Municipal Power Systems (UAMPS)) for the development and construction of the Carbon Free Power Project (CFPP), a 720 MWe NuScale power plant to be located at the U.S. Department of Energy's Idaho National Laboratory site. This award will serve as a funding vehicle to advance the CFPP as funds are appropriated by Congress.

The award demonstrates the importance of the CFPP, which will be the first NuScale small modular nuclear reactor (SMR) project in the United States.

The award also demonstrates DOE's commitment to accelerate the decarbonization of electrical generation nationwide and globally, and to support stable, carbon-free electrical supply to complement intermittent renewable energy. The project will also help maintain U.S. leadership in nuclear innovation and development.

The \$1.355 billion award, allocated over 10 years, will fund the one-time costs for the first-of-a-kind project, as funds are appropriated by Congress, to reflect what second and subsequent NuScale plants would cost. This will help ensure that the levelized cost of energy target price of \$55 MWh can be achieved at a level of risk UAMPS can manage. That price makes the CFPP competitive with other non-intermittent dispatchable energy sources like combined cycle natural gas plants, but without greenhouse gas emissions. It will ensure long-term affordable energy to UAMPS member participants while avoiding exposure to greenhouse regulation and compliance costs.

"We appreciate this tremendous vote of confidence in CFPP by the Department of Energy," said Douglas Hunter, UAMPS CEO & General Manager. "It is entirely appropriate for DOE to help de-risk this first-of-a-kind, next-generation nuclear project. This is a great example of a partnership with DOE to lower the cost of introduction of transformative advanced nuclear technology that will provide affordable, carbon-free electricity all over the country and the world. This project is much bigger than UAMPS itself."

Hunter said UAMPS members are especially supportive of the project because it will complement and enable additional intermittent renewable energy, especially wind and solar, that are being added to member energy portfolios.

“The ideal world for utility companies and their customers, and the most cost-effective,” said Hunter, “are portfolios containing a high percentage of low-cost renewables, backed up by stable, carbon-free nuclear energy that is available 24 hours a day, 365 days a year.”

The 12 small modular reactors in the project will provide the flexibility to ramp up and down as needed to follow load and complement intermittent renewable supply.

Energy from the project will replace electric generation from coal plants that are nearing the end of their life cycles. The CFPP, combined with UAMPS renewable projects, will enable many members to completely decarbonize their energy portfolios.

The CFPP has received strong bipartisan support across several administrations and has broad support in the U.S. Congress. The SMR technology will help UAMPS’ participating member communities, states, and regions to meet their goals to de-carbonize the electrical grid.

About the Carbon Free Power Project. CFPP is a 720 MWe nuclear plant to be located at the Idaho National Laboratory near Idaho Falls, Idaho. It will be comprised of 12 60 MWe nuclear power modules to be provided by NuScale Power based in Portland, Oregon. Electricity from the plant will be distributed to customers of 33 UAMPS member utilities in five states. Other western utilities are expected to join the project in the future.

About UAMPS. Utah Associated Municipal Power Systems is an energy services interlocal agency of the State of Utah, established in 1980. As a project-based consortium, UAMPS provides a variety of power supply, transmission, and other services to its 47 members, which include public power utilities in six western states: Utah, California, Idaho, Nevada, New Mexico, and Wyoming.

Talking Points

DOE approves cost-share award of \$1.355 billion for UAMPS' Carbon Free Power Project

October 16, 2020

- The U.S. Department of Energy has approved a multi-year cost-share award to a new special purpose entity named the Carbon Free Power Project, LLC (CFPP, LLC) (an entity wholly owned by Utah Associated Municipal Power Systems (UAMPS)) for the development and construction of the Carbon Free Power Project (CFPP), a 720-megawatt NuScale power plant to be located at the U.S. Department of Energy's Idaho National laboratory site. This award will serve as a funding vehicle to advance the CFPP as funds are appropriated by Congress.
- The \$1.355 billion award, allocated over 10 years, will fund the one-time costs for the first-of-a-kind project, as funds are appropriated by Congress, to reflect what second and subsequent NuScale plants would cost. This will help ensure that the levelized cost of energy target price of \$55 MWh can be achieved at a level of risk UAMPS can manage. That price makes the CFPP competitive with other non-intermittent dispatchable energy sources like combined cycle natural gas plants, but without greenhouse gas emissions. It will ensure long-term affordable energy to UAMPS member participants while avoiding exposure to greenhouse regulation and compliance costs.
- Energy from the project will replace electric generation from coal plants that are nearing the end of their life cycles. CFPP will enable UAMPS and its members to add significantly higher amounts of intermittent renewable energy, especially wind and solar, to member energy portfolios. The CFPP, combined with renewables, will enable many members to completely decarbonize their energy portfolios.
- The 12 small modular reactors in the project will provide the flexibility to ramp up and down as needed to follow load and complement intermittent renewable supply.
- The award demonstrates the importance of the CFPP, which will be the first NuScale small modular nuclear reactor (SMR) project in the United States.
- The award demonstrates DOE's commitment to accelerate the decarbonization of electrical generation nationwide and globally, and to support stable, carbon-free electrical supply to complement intermittent renewable energy. The project will also help maintain U.S. leadership in nuclear innovation and development.
- The CFPP has received strong bipartisan support across several administrations and has broad support in the U.S. Congress. The SMR technology will help UAMPS' participating member communities, states, and regions to meet their goals to de-carbonize the electrical grid.

Quotes from Douglas Hunter, UAMPS CEO & General Manager:

“We appreciate this tremendous vote of confidence in CFPP by the Department of Energy. It is entirely appropriate for DOE to help de-risk this first-of-a-kind, next-generation nuclear project. This is a great example of a partnership with DOE to lower the cost of introduction of transformative advanced nuclear technology that will provide affordable, carbon-free electricity all over the country and the world. This project is much bigger than UAMPS itself.”

“The ideal world for utility companies and their customers, and the most cost-effective, are portfolios containing a high percentage of low-cost renewables, backed up by stable, carbon-free nuclear energy that is available 24 hours a day, 365 days a year.”

About the Carbon Free Power Project. CFPP is a 720-megawatt nuclear plant to be located at the Idaho National Laboratory near Idaho Falls, Idaho. It will be comprised of 12 60-megawatt nuclear power modules to be provided by NuScale Power based in Portland, Oregon. Electricity from the plant will be distributed to customers of 33 UAMPS member utilities in five states. Other western utilities are expected to join the project in the future.

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From: [Olson, Suzette M](#)
To: [Mason Baker](#); [Bates, Melissa \(HQ\)](#)
Subject: award
Date: Friday, October 16, 2020 7:16:39 AM
Attachments: [Assistance Agreement Form.pdf](#)

Hi Mason,

Attached is the Assistance Agreement Cover Page (16 pages). This shows the period of performance (block 7); value (block 12); and title (block 21). Hopefully this will suffice until you are able to access all of the docs through FedConnect. Let me know if you need anything else right now. Sorry I'm not any help on the FedConnect end, we just push the docs out to that system. Thanks, Suzette

Suzette M. Olson

Director, Contract Management Division
Department of Energy, Idaho Operations
(208) 526-7385 office

(b) (6) cell
olsonsm@id.doe.gov

Attachment 3, consisting of sixteen (16) pages,
is withheld in full under Exemption B5.

From: [Hughes, Diane](#)
To: [Bates, Melissa \(HQ\)](#)
Cc: [Conroy, Kelly](#); [Austin, Tiffany](#); [Feldman, Karin A](#); [Colbert, Christopher](#)
Subject: [EXTERNAL] RE: NuScale Talking Points - DOE Award Announcement
Date: Friday, October 16, 2020 10:47:19 AM
Attachments: [image001.png](#)
[REVISED-101620-Talking Points DOE Announcement.docx](#)

Melissa,

Attached are the revised talking points based on your feedback.

Have a great weekend,
Diane



Diane Hughes
Vice President, Marketing & Communications

email: dhughes@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

mobile: (b) (6)

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From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Friday, October 16, 2020 1:20 PM
To: Hughes, Diane <DHughes@nuscalepower.com>
Cc: Conroy, Kelly <KConroy@nuscalepower.com>; Austin, Tiffany <TAustin@nuscalepower.com>; Feldman, Karin <kfeldman@nuscalepower.com>; Colbert, Christopher <ccolbert@nuscalepower.com>
Subject: RE: NuScale Talking Points - DOE Award Announcement

Hi Diane,
Based on further review from other individuals, one more suggestion was raised for your consideration. Would it be possible to add the word "demonstration" in the places noted in the attached file?

Please let me know if you have any questions.

Thank you,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

From: Hughes, Diane [<mailto:DHughes@nuscalepower.com>]
Sent: Friday, October 16, 2020 10:18 AM
To: Hynes, Shaylyn <shaylyn.hynes@hq.doe.gov>
Cc: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Conroy, Kelly <KConroy@nuscalepower.com>; Austin, Tiffany <TAustin@nuscalepower.com>; Feldman, Karin A <kfeldman@nuscalepower.com>; Colbert, Christopher <ccolbert@nuscalepower.com>
Subject: [EXTERNAL] NuScale Talking Points - DOE Award Announcement

Shaylyn,

Attached is a copy of NuScale's reactive talking points for any media/stakeholder inquiries and a proactive social media statement that will link to UAMPS' press release.

Warm Regards,
Diane



Diane Hughes
Vice President, Marketing & Communications
email: dhughes@nuscalepower.com
web: www.nuscalepower.com
office: 541.452.7247
mobile: (b) (6)

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Talking Points, DOE Announcement

(UAMPS/Fluor's press release, scheduled release Friday, Oct. 16)

Proactive Statement:

NuScale is appreciative of the U.S. Department of Energy's approval of a new cost-share award with Utah Association Municipal Power Systems (UAMPS) and the U.S. Congress' ongoing support of the Carbon Free Power Project (CFPP). Subject to annual appropriations, DOE can provide up to \$1.355 billion in funding for the demonstration and deployment of the first NuScale small modular reactor (SMR) in the U.S. This partnership is an important step forward in realizing the groundbreaking benefits of our SMR technology. <https://www.uamps.com/file/bdb4992c-e325-4ae9-8df3-9e4c5815b5be>]

Reactive Talking Points If Asked:

- NuScale is appreciative of the Department of Energy's commitment to the realization of the CFPP.
- This cost-share award of up to \$1.355 billion is an important component of the further de-risking the CFPP for UAMPS members, and we appreciate that it will lower the financial burden on UAMPS members for this first-of-a-kind nuclear technology.
- The award assists UAMPS with the costs associated with the first time demonstration and deployment of any new technology, bringing it line with what subsequent deployments would cost.
- In the coming months, we are finalizing the plant design and will be developing a Class III estimate for the UAMPS Carbon Free Power Project. A Class III estimate is considered a budget authorization or control estimate by AACE International and must contain project/location specific costing elements.
- The \$6.1B total budgetary estimated cost of the CFPP includes the project-specific proprietary plant cost estimate and proposal for warranty and fee, as well as UAMPS's conservative estimates for owner's costs and owner's cost contingency, EPC contingency, EPC and owner's cost escalation, and interest during the 10 year period commencing October 2020 through 2030.
- The project-specific proprietary cost estimate for CFPP is consistent with NuScale's overnight capital cost estimate for a first plant deployment published on our website.

General information about the award, if needed:

- The DOE has approved a new Multi-Year Award in the nominal amount of \$1.4 billion representing approximately 25% of the estimated Development and Construction Costs of the CFPP, spread over a period of nine years, concluding with commercial operation of the CFPP.
- The New DOE Multi-Year Award also reduces the amounts UAMPS will need to finance over the next few years, thus reducing the Levelized Cost of Energy (LCOE) of the Project.

From: [Bogema, Harrison Stuart](#)
To: [Perry, Jeffrey Neal](#); ["Mason Baker"](#); ["Nathan Hardy"](#); [Miller, Michael](#); [Conner, Teri M](#); ["Cullen, Gregory V."](#); ["Keith Lockie \(b\) \(6\)"](#); [Bates, Melissa \(HO\)](#); [Goodner, Jerry Lee](#); [Perryman, Toni M](#); ["Michael Cline"](#); ["Annie.Nash@fltuor.com"](#); [Ford, Brayton J](#); ["Matt DeVoe"](#); ["Julie Robertson"](#); [Hudson, Adrienne Lindsay](#); ["michael.rosenmeier@rizzointl.com"](#); ["Kinsella, Clarice"](#); ["Gregoire, Donald W."](#); ["Peter.Knollmeyer@fltuor.com"](#); ["Pigg, Kevin"](#); [England, Aaron D](#); ["Campbell, Beth"](#); [Guevel, Patrick](#)
Cc: [Coulter, Edward "Ted" Saunderson](#); [Mynatt, Norman Lynn](#); ["Neises, Glenn"](#); ["Mike Edwards"](#); [Holcomb, John Michael](#); [Schiele, Raymond Joseph](#); [Stout, Daniel P](#); [Montague, Kelvin Jevon](#); [Justice, Walter M II](#)
Subject: [EXTERNAL] CFPP Weekly Status Meeting
Date: Tuesday, October 20, 2020 10:33:47 AM
Attachments: [20 10 20 CFPP Project Action Items.xlsx](#)

The action item list is attached for our meeting today.

Harrison S. Bogema
Associate Project Manager
Nuclear Technology Innovation
Tennessee Valley Authority
LP4 S432
Work: (423) 751-3675
Cell: (b) (6)

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CFPP Project Action Item List - October 20th, 2020								
Safety Message: Mike Rosenmeier, Beth Campell, Kevin Pigg, Melissa Attendees: TVA: Harrison/ UAMPS: / NuS: / RIZ: / DOE: / ENW: / B&M: / Flu: Bates, Lynn Mynatt, Ted Coulter, Phil Hammond, Mike Miller, Jerry / S&ME: Goodner, Matt DeVoe, Michelle Conner, Keith Lockie, Jeff Perry,								
Item No.	Action Item/Work Activity Description	Date Added	Source	Org	Resp Person	Due Date	Forecast Date	Remarks
Project Management								
131	RIZZO to draft and submit geophysics and laboratory testing work plans to TVA for review	7/28/2020	CFPP Weekly Status Meeting	RIZZO	Mike R, Bogema	9/23/2020	10/9/2020	Final plans are being put in place for these tests. Teleconference with Geovision scheduled for 10/14. Geophysics testing plan the week of 10/17, laboratory testing plan the week of 10/24
COLA Development								
100	Ask owner engineer if they have a review/approval process for COLA sections	10/3/2019	Review Process Call	TVA/ B&M	Harrison	10/15/2019		Should this be limited to technical/site-specific sections only?
Licensing								
101	Evaluate the use of CERTREC for RFIs that RIZZO is	9/19/2019	September 19th	TVA	Stuart,			A draft procedure has been developed and is under review. When
Site Infrastructure								
130	Receive Final Surface Geophysics Report from UT-Austin	7/21/2020	Previous important date	RIZZO	Mike R.	7/31/2020	8/14/2020	Mike Rosenmeier is working with Ken Stokey. Ken promised it this week - 10/17
118	Develop badging/access control training plan for all personnel	2/18/2020	JP/KL Discussion	TVA/ RIZZO	Keith, Mike R.	3/31/2020		Follows action 106.
Environmental, Health and Safety								
52	MOU between NRC and DOE needed on NEPA process.	11/26/2018	CFPP Weekly Status Meeting	DOE	Jared	4/1/2019	5/1/2019	Alignment on the NRC NEPA process needs to be achieved so DOE can coordinate appropriately. Mason to discuss with Stuart or Chris. This item can wait until COLA prep starts
118	Complete negotiation/issue INL/UAMPS Environmental Management Interface Agmt.	2/18/2020	JP/KL Discussion	TVA/ UAMPS	Jeff, Nate, Mason	3/31/2020	8/10/2020	Keith and Mason need to discuss with Chris Harvey to put together a DOE/ UAMPS agreement first. Mike Squires has a draft to circulate with Chris Harvey , the attorney at DOE.
124	Acquire hydrogeologist to develop well drilling program/plan - develop/finalize well drilling	2/18/2020	JP/KL Discussion	TVA/ RIZZO	Jeff, Mike R.	4/30/2020		Final Core Boring Plan needs to be reviewed by the hydrogeologist
135	Discuss and agree on chain of custody and timing for transfer of core boring custody from RIZZO to USGS	2/18/2020	CFPP Drill Site	TVA/ RIZZO	Mike R., Jeff, Nate	9/22/2020	10/31/2020	Chain of custody discussion regarding releasing the core to USGS is needed between RIZZO, TVA, and UAMPS. Talks in progress with Mary Hodges. Need some traceability for RIZZO to retain custody. Need offline conversation Jeff, Nate, and Mike R. Procedures should be establish for the chain of custody process. . RIZZO needs to come to an agreement with UAMPS as regards control and willingness to allow the USGS to further examine the core boring. Discussion is needed before the end of October - decision tree
Important Dates								
Date:	9/19/20 - Drilling operations began on site - 10/19/20 depth is 1393							
	10/14/20 - Mike Cline and Bill Hackett (consulting geologist) visit the drill site during our third work shift.							
	10/19/20 - Next SSHAC working meeting (will be a different format than previous meetings). Date may be confirmed later this week. Series of meetings to relay progress.							
	10/31/20 - Special care samples have been collected and will be sent off for laboratory testing. Dynamic test samples will go to UT-Austin. Static test samples to be sent to MTI/Atlas.							

	11/4/20 - Downhole geophysics testing				
Key:	Complete/Closed Actions	Active Action Items	On Hold Actions	(#) activity tie	(#) correspond with Site Walkdown Report activities

CFPP Project Action Item List - Sept 4th, 2018

Safety Message: Ray Schiele, Nate Hardy, Dan Stout, Mason Baker, Sherri

Mason, Nate, Kevin, Jared, Mike

Act Item No.	Action Item/Work Activity Description	Date Added	Source	Org	Resp Person	Due Date	Forecast Date	Remarks
Project Management								
11	Workflow the UAMPS procurement process	7/19/2018	Kick-off meeting	TVA	Jeff	8/10/2018	8/17/2018	Completed Draft - 8/9/18 Go over next week
39	Provide sample monthly DOE report update	8/13/2018	Mike Miller	NuScale	Miller	8/17/2018		Completed
18	Determine how to measure progress for DOE award (EVM, milestone basis, other?)	7/19/2018	Kick-off meeting	TVA	Sherri			Complete. Mike to provide draft version of monthly update
22	Draft owners engineer SOW for UAMPS	7/19/2018	Kick-off meeting	TVA	Jeff	8/15/2018		Complete 8-10-18
33	TVA develop preliminary full COLA schedule assuming April 1 start	7/25/2018	M Miller note: CFPP Siting and Licensing Renewal Plan	TVA	Sherri	9/3/2018		Completed. High-level schedule last week for prep and review. Reviewed next week in Salt Lake City.
4	Send Mason paragraph on scope of proposed COLA contractor	7/19/2018	Kick-off meeting	TVA	Sherri	8/15/2018	8/22/2018	Closed. Mason waiting to receive from Sherri. (renewal process)
17	Determine TVA input into NuScale monthly DOE report	7/19/2018	Kick-off meeting	TVA	Sherri	8/15/2018	8/20/2018	Completed. Mike has format for monthly report and he is going to reconfigure
33	TVA develop preliminary full COLA schedule assuming April 1 start	7/25/2018	M Miller note: CFPP Siting and Licensing Renewal Plan	TVA	Sherri	9/3/2018		Completed. High-level schedule last week for prep and review. Reviewed next week in Salt Lake City.
23	Draft interfaces needed for ENW in COLA	7/19/2018	Kick-off meeting	TVA	Sherri	8/15/2018	10/31/2018	ENW/TVA discussion on 9/24. Interfaces
42	Include Jeff in the SMR Tribal Working Group	8/29/2018	IF Project Discussion	DOE-ID	Jared	9/17/2018		Included.
43	Lay out critical path for core boring activities	8/29/2018	IF Project Discussion	TVA	Harrison	9/12/2018	9/21/2018	Critical path schedule activities sent to Jeff/John
24	Update UAMPS procurement procedure	7/19/2018	Kick-off meeting	TVA	Jeff	8/10/2018	10/26/2018	Waiting on signatures from UAMPS. Sent to Jeff and Mike forward to DOE for review.
41	Determine rights of way to be applied to the UAMPS power line	8/29/2018	IF Project Discussion	DOE-ID	Chris	9/28/2018		Jared sent Jeff a note.
48	Prepare and approve PO #2	9/26/2018	Project Discussion	TVA	Jeff	10/5/2018	11/2/2018	Revised draft PO #2 proposed on 10/17.
49	Complete Task Order for INL	10/22/2018	Project Discussion	TVA	Mike	10/26/2018		Mike has sent the procedure out for review. Still looking for signatures. Jeff to the task orders out to be signed and
54	INL Land Use Committee Impacts	11/26/2018	CFPP Weekly Status Meeting	TVA	Jared			Complete. Jared/Keith reviewed the Land Use Committee Input and Jared provided input on 12/6.

54	Prepare for Site Walkdown in mid-January	12/10/2018	CFPP Weekly Status Meeting	TVA	Keith	1/17/2019		Keith to work with Jeff, John, Jared, George, Nate, Mason, Fluor, and Mike on list of attendees and discussion topics (roads, power, water permitting, site layout). Coordinate drone flyover of Site 3?
53	Review Site Use Permit - Get alignment on letter notification process.	11/26/2018	CFPP Weekly Status Meeting	TVA	Keith			Site Use Permit has been reviewed. No changes appear to be needed. Get alignment on letter notification process.
51	Provide description of INL involvement in the work authorization process	11/26/2018	CFPP Weekly Status Meeting	TVA	Keith	1/15/2019		Set of summary meetings are out for review this week.
71 (21)	Provide INL with all site walkdown photos for review	1/17/2019	Site Walkdown	All	Mike, Jeff, Nate	2/8/2019		
64 (11)	Provide INL badges/computer access for project team	1/17/2019	Site Walkdown	TVA	Keith, Jared	2/8/2019		Paperwork has been turned in for processing. Deanna Brown to provide forecast completion
49	Prepare DOE talking points and tribal notification regarding preferred site location change.	11/26/2018	CFPP Weekly Status Meeting	TVA	Jared, Keith, Mason	2/8/2019	4/8/2019	Danielle sent out the communications plan and asked for comments by 4/12. Bob Boston and Jared met with the tribal council on April 8th. Nate and Jared talked to the tribal liason as well. Elders may visit Site 3.
50	Resolve SSHAC impacts, send formal letter to SHAAC personnel of site change after UAMPS notifies DOE	11/26/2018	CFPP Weekly Status Meeting	TVA	John H., Nate	3/15/2019	2/28/2019	Nate is reviewing the letter prior to mailing it. Complete 6/16/19.
67 (15)	Evaluate use of INL site services and INL Subcontractor Requirements Manual	1/17/2019	Site Walkdown	TVA, UAMPS	Keith, Jeff, Nate	2/28/2019		List of services narrowed down. Keith communicating with INL to evaluate any
71	TVA QA to develop draft QA presentation	4/30/2019	CFPP Weekly Status Meeting	TVA	Jeff, Michelle	5/31/2019		Presentation occurred last week.
73	Establish approach for development of Fleet Services	4/30/2019	CFPP Weekly Status Meeting	TVA	Michelle, Jeff, Mike	6/6/2019		Presentation made on June 6th. Michelle developing a list of actions for a scoping
74	Revise INL Task Order to incorporate INL Site Services	4/30/2019	CFPP Weekly Status Meeting	UAMPS	Nate			Signed, needing Nate's signature. Mike to reforward email
50	Resolve SSHAC impacts, send formal letter to SHAAC personnel of site change after UAMPS notifies DOE	11/26/2018	CFPP Weekly Status Meeting	TVA	John H., Nate	3/15/2019	2/28/2019	Nate is reviewing the letter prior to mailing it. Complete 6/16/19.
75	Determine Interim budget for Sept - Mar 2020	4/30/2019	CFPP Weekly Status Meeting	TVA	Jeff	5/31/2019	6/21/2019	Ongoing

98	Send SPG report to B&M for review and schedule a walk through meeting	9/19/2019	September 19th Schedule Meeting	TVA/ B&M/ NuScale	Nate	Complete	9/24/2019	Jeff to send SPG report and recommendation to B&M for review
86	Develop list of near term deliverables for bench marking and fleet services meetings	7/9/2019	CFPP Weekly Status Meeting	TVA	Jeff/ Michelle		10/18/2019	Meeting in Portland occurred week of 10/1. Deliverables to be provided and added to the schedule. Next steps are being discussed.
80	Determine seismic/core boring time line to identify interactions needed b/w CFPP and SSHAC for COLA schedule development	4/30/2019	CFPP Weekly Status Meeting	TVA	John H., Wally, Jeff, Nate	5/24/2019	10/31/2019	Scheduling meeting occurred 9/19 - 9/20. Another meeting is scheduled for 10/17
89	Investigate impacts of a delay in the SSHAC schedule of 4-6 months. UAMPS to provide formal response to DOE.	8/27/2019	SSHAC Recurring Phone Call	DOE/ TVA/ Nuscale	Melissa, Wally, Beth	9/20/2019	10/31/2019	Phone call to be set up by Melissa: Include Wally, Holcomb, Rizzo, NuScale on future call with SSHAC. Mike doing some research
70 (19)	Provide waste mgmt, site remediation, and hazardous materials plans to DOE for review	1/17/2019	Site Walkdown	TVA	Jeff	7/31/19 (Previous 5/31/2019)	Complete	To be completed after vendors are under contract.
103	Discuss possibility and process for sharing met tower data with INL	12/17/2019	December 17th Schedule Meeting	TVA/ ABS/ INL	Keith, Mark	1/31/2020		George Griffith asked if data could be shared. Options for sharing need to be discussed. Monthly or quarterly? Feedback from INL/NOAA indicate they may request tower data for specific reports, reviews, etc., but no need to set up process for real time data sharing
97	Draft risk register template and distribute for companys to prepare draft risk registers to be	9/19/2019	September 19th Schedule Meeting	TVA/ UAMPS/	Ted		1/31/2020	Meeting occurred.
85	Develop a Change Control Board Process	6/17/2019	Jerry and Ted conversation	TVA	Jeff	9/27/2019	2/7/2020	Jeff sent a draft of the change control board process on 2/5. Toni and Jerry have
108	Confirm funding is available for site power	2/18/2020	JP/KL Discussion	UAMPS	Nate			To be discussed 2/26

107	Install Site Power	2/18/2020	JP/KL Discussion	TVA	Jeff, Nate	2/28/2020	5/30/2020	RFP issued and proposals are due 3/27
109	Procure a diesel power generator to power the trailer on site	2/18/2020	JP/KL Discussion	TVA	Jeff, Keith	3/31/2020	7/31/2020	Generator installed. Rizzo planning to take on operations responsibility - they will see if Cascade Drilling can assist with refueling services. 60 gallon tank - 3-4 days worth. Cascade is planning on keeping a truck with a large tank in the bed on site.
133	Travel approvals for Core Boring	8/18/2020	CFPP Weekly Status Meeting	TVA	Keith			Mike to update Jeff 8/25-26/2020.
133	Complete revision of SMRDP-1 to cover TVA's of support core boring at the CFPP site.	9/1/2020	CFPP Weekly Status Meeting	TVA	Michelle, Lynn	9/8/2020		SMRDP-1 is with the IQR reviewer. It should be issued by 9/10 at the latest.
134	Travel approvals for Met Tower	9/1/2020	CFPP Weekly Status Meeting	TVA	Keith			Pending contract and personnel discussions
Engineering								
38	Access to INL safety basis documents	8/6/2018	8/6/18 weekly meeting	INL	George	8/17/2018		Completed. George sent documents. Access will be needed.
25	TVA review water use study when issued	7/19/2018	Kick-off meeting	UAMPS	John	9/30/2018		Closed.
47	Prepare scope and schedule for TVA/NuScale	9/10/2018	Jeff P assignment	TVA	Alex	9/21/2018	10/5/2018	Closed.
65 (12)	Submit prelim. site layout info on reactor complex areas to TVA for planning purposes	1/17/2019	Site Walkdown	NuScale, Fluor	Mike	2/28/2019		Mike sent on secure docs - 3 sites identified. Need TVA/UAMPS to review (consider cultural, volcanism, PMF, dry/wet cooling). Call w/ Fluor?
56	Plan and conduct a drone flyover of Site 3	1/17/2018	Site Walkdown	TVA	John H.,	2/15/2019		Working with George Griffith on LIDAR.
58 (3)	Plan and conduct ground penetration radar (GPR) scans of Site 3	1/17/2019	Site Walkdown	TVA	Keith, John H.	TBD		Call occurred on 2/5. This does not appear to be necessary. Revisit on next week's call. Local contractors also use a cone penetrometer
37	Prepare an analysis of the volcanism issue with regard to the site evaluation report for submittal to	8/7/2018	Jeff P assignment	TVA	John H.	1/31/2018	5/10/2019	Stuart has adressed Jeffs comments and the document is ready for submittal.
90	Develop interface strategy between CFPP team and SSHAC team	9/19/2019	September 19th Schedule Meeting	TVA/ RIZZO/ NuScale	Wally/ Mike R			RIZZO to review the work plan. Conference call to be set up with TVA, NuScale, and RIZZO to establish understanding of specific
72 (76)	Develop SOW for purchase of power from Rocky Mountain Power and installation of 3.2 miles of new transmission lines to be provided to RMP and INL Power	4/30/2019	CFPP Weekly Status Meeting	UAMPS, TVA, INL	Nate, Keith, Jared	2/28/2019		Storage has been found to house core borings so on-site permanent power may not be needed. Decision to be made in February, to pursue temporary or permanent power.
76 (72)	Investigate installment of 3.2 miles of new transmission lines and use of IDOT ROWs	5/7/2019	CFPP Weekly Status Meeting	TVA	Keith, Jeff			Mike Pulardi is working on this. Transformer owned by INL at Howe to be tapped into (\$200k). New line is \$30k-40k/mile. Load requirement is 5kW. Salmon River is a potential partner

COLA Development								
95	Set up a meeting between NuScale and TVA to discuss review process and scheduling fragnet	9/19/2019	September 19th Schedule Meeting	NuScale/TVA	Kelvin, Beth, Harrison	9/30/2019	10/3/2019	NuScale attendees: Mike, Elise, Beth, Phil, Kevin TVA Attendees: Jeff, Ray, Kelvin, Jerry, Harrison
91	NuScale to review structure of Preliminary and Final Engineering Support Activities and send additional activities to TVA	9/19/2019	September 19th Schedule Meeting	NuScale	Beth, Mike		9/27/2019	Fragnet to be sent will replace E2.03.07-GEN-102 (Preliminary Engineering Support Activities – FSAR Section 3.7) Preliminary and Final SSHAC activities
93	Add a PLAXIS analysis to the schedule	9/19/2019	September 19th Schedule Meeting	RIZZO/ TVA	Mike R., Harrison, Jerry			RIZZO to provide line items and dates, Jerry/Harrison to implement. Mike R to send this week - 10/15
99	Conduct a detailed schedule review and issue a draft baseline when complete (hard baseline to be completed later)	9/19/2019	September 19th Schedule Meeting	TVA/ NuScale/ RIZZO	Harrison, Jerry	12/15/2019	4/30/2020	Draft baseline completed and working over the next 2 months to get Bechtel and S&L on board. Activity to be conducted with NuScale, Rizzo, SSHAC, and TVA
Licensing								
44	SSHAC - can we put in two core borings this fall to support the seismic work? Determine timing and needed predecessor activities.	8/29/2018	IF Project Discussion	TVA	John/ Michelle/ Harrison	9/12/2018		Discussed with SSHAC on 9/27. Timing for USGS core borings is Mar/Apr 2019 w/ USGS also drilling and installing a well.
68 (18)	INL provide USGS aquifer data on Site 3	1/17/2019	Site Walkdown	TVA	Keith	2/8/2019		Call occurred with USGS/INL on 2/5. There's no new data.
26	Schedule a NRC Site Visit to discuss pre-app	7/19/2018	Kick-off meeting	TVA	Ray	5/1/2019		Meeting will occur on 9/23 - 9/24. Draft agenda to be prepared.
84	Develop a plan for the NRC Site Visit and an agenda of activities	6/11/2019	CFPP Weekly Status Meeting	TVA	Ray, Mason	8/1/2019		Meeting is scheduled for 10/7 - 10/8. Ray to meet with Mason 9/12 to discuss slides
94	Explore VTR's planning and timing basis for addressing volcanic hazards	9/19/2019	September 19th Schedule Meeting	TVA	Keith	10/15/2019	10/31/2019	VTR is not conducting any licensing activities beyond stating that volcanic events are beyond design basis. JP/WJ input needed
Site Infrastructure								
36	Prepare a decision document for UAMPS: re - initial site layout	8/7/2018	Jeff P assignment	TVA	Jeff/John	9/7/2018		High level layout assumptions. Discuss impacts of NuScale 2.0. SOW identified for initial site development to be sent to Nate and Mason. Minimum work for road, trailer, and met tower to comply with INL standards. Jeff to discuss revised site layout with Nate on 9/26.
46	Information on USGS # 107	8/29/2018	IF Project Discussion	BEA	George	9/28/2018		USGS # 107 is the well onsite. They have the core boring log, but no other information.

45	Determine water permitting needs with IDWR	8/29/2018	IF Project Discussion	TVA	Keith	10/15/2018	11/30/2018	Initial set of questions was given to Jeff. Related to item 51. To be discussed with DOE/INL 1/15.
55	Discuss JUMP as it relates to siting.	12/10/2018	CFPP Weekly Status Meeting	TVA	John			Was in support of business case. Preliminary infor - JUMP does not have preference.
69 (17)	Evaluate need for installation of security features to surround trailer/parking area	1/17/2019	Site Walkdown	UAMPS, TVA	Nate, Jeff	2/28/2019		Evaluation concluded, security fence recommended. UAMPS to install
61 (7)	Investigate grazing allotments on Site 3	1/17/2019	Site Walkdown	DOE	Jared	2/15/2019		Feedback received from BLM, majority of Site 3 is not in an active allotment - not for a few years
59 (5)	Evaluate electrical power supply options for Site 3 characterization	1/17/2019	Site Walkdown	TVA	Jeff	TBD		INL power org. identified a power line that we can drop a line off of - 2.5 mile run down highway 33 - rough cost is 70k. Back-up generator still needed
53	Complete key issue document on dry cooling and scoping work on water availability	12/10/2018	CFPP Weekly Status Meeting	TVA	John H.	2/28/2019	4/16/2019	Telecon occurred 3/21, document to be forwarded to UAMPS followed by a presentation to board.
60 (6)	Submit prelim. site characterization layout to DOE for evaluations (Davis-Bacon, NEPA, etc.)	1/17/2019	Site Walkdown	TVA	Jeff, Nate, Mike	2/15/2019		Layout submitted. Jeff/Nate discussed 4/23
78	Establish approach for revision of Site #3 boundary	4/30/2019	CFPP Weekly Status Meeting	TVA	Jeff, Nate, Stuart			Approach has been identified and discussed with Nate, Mason, and Jared. New boundary map created. Letter to be written and sent to Jared
62 (8)	Investigate permits needed for access road to Site 3	1/17/2019	Site Walkdown	TVA	Jeff, Keith, Jared	2/28/2019		DOE submitted permit request to IDOT on 5/23. Response and clarification needed to narrow down exact SOW and update permit.
82	Send Keith names of attendees for June 4th Site visit.	5/14/2019	CFPP Weekly Status Meeting	TVA	Keith, John H.	5/21/2019		Still needs: UAMPS, RIZZO
77	Fluor to validate plant location - Rizzo and INL to be included in discussions	4/30/2019	CFPP Weekly Status Meeting	Fluor	Mike, Jeff	6/4/2019	6/21/2019	Fluor Complete 6/18/19. This will be discussed at the site visit June 4th. Next steps to be followed after site visit: review drone data and submit formal evaluation
77	Fluor to validate plant location - Rizzo and INL to be included in discussions	4/30/2019	CFPP Weekly Status Meeting	Fluor	Mike, Jeff	6/4/2019	6/21/2019	Fluor Complete 6/18/19. This will be discussed at the site visit June 4th. Next steps to be followed after site visit: review drone data and submit formal evaluation
81	Conduct a drone fly over of Site #3 - receive signatures on revised task order	5/7/2019	CFPP Weekly Status Meeting				6/14/2019	Complete 6/25/19. Task order was revised and signed off. Drone fly over completed. Final data available by 6/14

87	Pour 2 concrete pads for seismic work at USGS 142 and the site location	8/20/2019	CFPP Weekly Status Meeting	TVA/ RIZZO/ INL	Keith, RIZZO Jared	10/14/2019	11/11/2019	WO Package is in review. To be complete 1st week of Nov. INL has completed the surveys environmental checklist so work can begin soon. H&S plan still under review
88	Badging and access to be provided for each RIZZO employee including foreign nationals	8/20/2019	CFPP Weekly Status Meeting	TVA/ RIZZO	Mike R./ Keith/ Jared		11/14/2019	Mike R. to make sure on-line training is complete. Badging requests for RIZZO and UT-Austin personnel have goin through INL and are now into DOE. Forecast complete 11/14/19
86	Receive response from IDOT on access road permit and update if needed	5/28/2019	CFPP Weekly Status Meeting	DOE	Jared	* 6/30/19		* First Agenda due end of June. Response and clarification may be needed to narrow down exact SOW and update permit.
102	Badging and access to be provided for met tower construction personnel	11/19/2019	CFPP Weekly Status Meeting	TVA/ ABSG	Keith	12/6/2019		Meeting occurred 12/3 to finalize names for badging
113	Confirm funding is available for mowing	2/18/2020	JP/KL Discussion	TVA/ UAMPS	Jeff, Nate			To be developed based on final core boring decisions
112	Gain UAMPS agreement to commit funds for	2/18/2020	JP/KL Discussion	UAMPS	Nate	3/31/2020		May not be required, to be discussed with
105	Revise photo screening process for on site activities	12/17/2019	CFPP Weekly Status Meeting	TVA/ INL	Keith, Jeff	2/28/2020	3/31/2020	Process is in place with INL that does not require photos to be submitted for review. It is a 1 page form that Keith fills out. Procedure still needs to be written - wait for JP to close
110	Finalize Mowing Plan	2/18/2020	JP/KL Discussion	TVA	Jeff, Keith	3/31/2020		Initial survey has been done by biological team at location 2A, no large scale nesting bird issues identified. Next round of surveys would analyze if any mowing needs to be done
111	Coordinate with INL on sagebrush impacts and revegetation plans/costs	2/18/2020	JP/KL Discussion	TVA/INL	Jeff, Keith	3/31/2020		Same status as item 110. Call held with US FW 4/9. There is no concern for sagebrush impacts but some mitigation efforts are being added to the Environmental Checklist.
106	Revise badging process to take credit for controlled badging point on site	12/17/2019	CFPP Weekly Status Meeting	TVA/ INL	Keith, Jeff	4/1/2020		Keith to submit a badging request for RIZZO core team once contract is in place. RIZZO planning to draft a badging access control process to be submitted to INL. (holding for contract)
115	Complete mowing around the admin area and met tower base	5/12/2020	JP/KL Discussion	TVA/INL	Jeff, Keith	6/30/2020	8/12/2020	High winds delayed planned 8/7 mowing - now planned for 8/21

116	Complete mowing of the core boring area	2/18/2020	JP/KL Discussion	TVA/ UAMPS	Jeff, Nate, Mason	9/1/2020	8/12/2020	High winds delayed planned 8/7 mowing - now planned for 8/21
114	Approve Work Authorization Form for future site work - core boring	5/12/2020	JP/KL Discussion	TVA	Keith	3/31/2020	8/10/2020	The WA package was submitted to DOE on 9/3. DOE-ID has been asked to weigh in
129	TVA/UAMPS decision on meteorology vendor	7/21/2020	Previous important date	TVA/ UAMPS	Jeff, Nate	8/10/2020	10/9/2020	RIZZO was selected by TVA/UAMPS. TVA has decided not to proceed with this SOW, Burns & McDonnell will be performing this SOW for UAMPS instead. B&M to start contract discussions with RIZZO 10/14.
128	Approve Work Authorization Form for future site work - Met Tower	9/22/2020	CFPP Weekly Status Meeting	TVA	Keith	On Hold as of 10/06/20	10/23/2020	Need Rizzo contract, QAPP, work plan, HASP in place prior to submittal. After contract work 3 weeks out from now.
117	Obtain badging/access for Met Tower workers – allow four to six weeks for INL process – submit badging requests to INL	2/18/2020	JP/KL Discussion	TVA/ RIZZO	Keith, Mike R.	3/20/2020 On Hold as of 10/06/20	9/8/2020	One Atlas badge is working through DOE comments. Two new badging requests are in from Cascade. Added badging & access for Met Tower work. Mike R. meeting with North Wind this week, while in Idaho Falls, to formalize the 'field team' for the met. tower program, and will then work with Keith to get badges for those folks that
Environmental, Health and Safety								
28	Develop a timeline of on the ground activities for the Tribes over the next 9 months and the decision	7/24/2018	FOA Call	TVA	Jeff	8/17/2018		Draft to be completed 8/17. Needs to be completed prior to the meeting on 8/29
29	Incorporate tribal review of cultural resources prior to approval for technical reports and draft sections	7/24/2018	FOA Call	TVA	Jeff			Phone call 8/15. Jeff to verify the INL schedule already incorporates this
30	Talk to DOE about cultural resource contractors	7/19/2018	Kick-off meeting	TVA	Jeff		8/24/2018	Phone call 8/15. Discussion delayed to allow for Cult Resource review of SOW - week of 8/13
40	Evaluate cost for cultural resource surveys	8/7/2018	Jeff P assignment	TVA	Jeff	8/29/2018		Cost and scope estimate from INL, \$141k to support the EC for Site #17.
66 (14)	Update US Fish and Wildlife Service on site characterization plans for INL CCA	1/17/2019	Site Walkdown	DOE	Jared	2/28/2019		Presentation occurred on 2/27. Used feedback from Jeff/Nate
79	INL Environmental Checklist Processing - Surveys identified of areas on Site #3	4/30/2019	CFPP Weekly Status Meeting	INL	Jennifer, Jeff			Surveys completed. Keith to notify biological resources personnel 3 weeks prior to site work
57 (2)	Provide preliminary site layout information to DOE for biological/cultural resource surveys planning	1/17/2019	Site Walkdown	DOE, TVA	Jared, Jeff	2/28/2019		Completed, 15 different things were identified for location and suitability. Needs site characterization plan. Successor to item 62.
63 (9)	Incorporate invasive species mgmt plan into site characterization contracts	1/17/2019	Site Walkdown	TVA	Jeff	5/1/2019		To be completed after vendors are under contract.

119	Complete Environmental Checklist revision for core boring and mowing at site location 2	2/18/2020	JP/KL Discussion	TVA	Jeff, Keith	3/31/2020		A draft was submitted to INL on 3/30 and they are reviewing. Approved 4/28.
122	Complete Davis Bacon Determination for Core Boring	2/18/2020	JP/KL Discussion	TVA	Jeff, Keith	3/31/2020	5/1/2020	Approved on 4/20 as non-covered work.
121	Establish Task Order agreement with INL for mowing and get in que – sign in Feb - meet with crew to set	2/18/2020	JP/KL Discussion	TVA	Jeff, Keith	2/28/2020		This item is with Nate for his review and approval.
123	Schedule/conduct nesting/biological surveys just prior to mowing	2/18/2020	JP/KL Discussion	TVA	Keith	3/31/2020	8/10/2020	Nesting surveys are needed prior to mowing. Its part of the package to be submitted to DOE in work authorization. There are two locations on NE and SW sides of location 2A. Just prior to mowing.
120	Complete Fish & Wildlife consultation at site location 2A	2/18/2020	JP/KL Discussion	TVA	Jeff, Keith, Nate	3/18/2020	8/3/2020	Consultation was made in April - follow up information (core boring location and current planning) was provided to DOE on 8/4 - no further actions are currently planned.
132	Rizzo to complete COVID-19 Plan	8/4/2020	CFPP Weekly Status Meeting	TVA/ DOE	Keith	8/17/2020		Offsite visitors are still permitted with screening form to be filled out and guidelines to be followed. RIZZO to
126	Develop plan for installing climate controls for the core boring storage facility at INL	2/18/2020	JP/KL Discussion	TVA/ RIZZO	Mike R., Jeff	8/10/2020	10/30/2020 Since 9/30/20	Decisions needs to be made on short term storage - temporary trailer or USGS warehouse so that the climate control issue can be resolved. Mike R. and Keith need to have a conversation regarding this. Trailer is has been powered
134	Track down temperature data logger and install it in the core boring storage facility at INL	9/22/2020	CFPP Drill Site	TVA/ RIZZO	Mike R., Keith	9/22/2020	9/25 installed.	RIZZO is working with Atlas/MTI to track down the temperature data logger that was calibrated and shipped the week of 9/14. The loggers were installed on Friday (9/25). I intend to download the initial logging data later today or tomorrow, for comparison with CFA temperature datasets. We'll use that comparison to try close-out the existing CR. Data logger was installed and temperature is now being monitored. Mike

From: [Mason Baker](#)
To: [Bates, Melissa \(HQ\)](#)
Cc: [Onuschak, Rebecca](#)
Subject: [EXTERNAL] NuScale Schedule Talking Points
Date: Saturday, October 24, 2020 1:04:59 PM
Attachments: [image001.png](#)

I'm fine with these talking points.

Best,

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

From: "Bates, Melissa (HQ)" <melissa.bates@nuclear.energy.gov>
Date: Thursday, October 22, 2020 at 9:42 AM
To: Mason Baker <mason@uamps.com>
Cc: "Onuschak, Rebecca" <rebecca.onuschak@nuclear.energy.gov>
Subject: FW: [EXTERNAL] NuScale Schedule Talking Points

Hi Mason,

DOE participated in a meeting with other federal agencies earlier this week where the UAMPS award was raised, as well as the new timeline for CFPP to reach commercial operation. In the discussion, several individuals requested that talking points be put together so that they can accurately explain things to their international counterparts. Given this sort of messaging could have an impact on NuScale in the international community, I wanted to come up with a set of talking points that NuScale, UAMPS, and DOE can support. I reached out to Karin Feldman at NuScale to see if they already had talking points the discuss the updated timeframe to reach commercial operation and she sent me the below points. Can you please review these and let me know if you have any edits. One of the bullet points seemed to be a little bit negative towards UAMPS, so wanted to see if you agree with the language or had any suggested edits.

Please let me know if you have any questions.

Thanks,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

From: Feldman, Karin <kfeldman@nuscalepower.com>
Date: Wednesday, Oct 21, 2020, 5:41 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Subject: [EXTERNAL] NuScale Schedule Talking Points

Melissa,

Please see below for our current public talking points on deployment schedule. Since you'd mentioned discussions on international deployments, I asked Diane to provide the last bullet to outline our position in that area. If you need additional information, let me know.

Karin

1. NuScale is operating with a 2027 full plant operation timeline in mind and we continue with our timely progress across our development program to commercialize our SMR technology, which includes standard licensing, design finalization, supply chain development, standard plant design and operational planning activities.
1. The decision by UAMPS to direct that we deliver the facility on a timetable that would see the operation of the first NuScale Power Module™ in 2029 is not due to any changes in NuScale's technology commercialization timeline. We are merely following the direction of our customer who now desires that the facility start producing electricity at a later date than originally contemplated.
2. UAMPS has stated that the updated timeline for the CFPP aligns with UAMPS' member needs, and allows for further de-risking of the project. It also provides time for regulatory, engineering and licensing review of project features, including the power output increase from 50 MW to 60 MW of each NuScale Power Module™, and the decision to use dry-cooling technology rather than water-cooling, saving approximately 20,000 acre-feet of water each year. UAMPS has stated that each of those developments represents a large benefit to the CFPP and to their Members, both financially and environmentally.
3. Despite this later commercial operation date, keeping to the 2027 NPM delivery timetable allows NuScale to meet the needs of customers who may seek commercial operation of a NuScale plant earlier than UAMPS.

4. As for the international market, NuScale has signed memoranda of understanding with entities in Canada, Romania, the Czech Republic, and Jordan, who have expressed interest in our SMR technology and who are in various stages of evaluation regarding a potential SMR deployment. A timeline for a NuScale deployment in these countries would reflect a number of market-specific factors including the duration of the regulatory review process. The UAMPS timeline has no effect on our international readiness, because as mentioned, NuScale is developing its program with view to supporting domestic and international customers that may have a desired date of commercial operation earlier than the UAMPS CFPP.



Karin Feldman
Vice President, Program Management Office
email: kfeldman@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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From: [Bates, Melissa \(HQ\)](#)
To: [Mason Baker](#); [Olson, Suzette M](#)
Cc: [Payne, Mark B](#); [Scott Fox](#); [Nathan Hardy](#); [Onuschak, Rebecca](#)
Subject: RE: UAMPS execution Assistance Agreement
Date: Monday, October 26, 2020 9:24:19 AM
Attachments: [UAMPS execution Assistance Agreement Form.pdf](#)

Adding Becky Onuschak to the distribution.

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

From: Mason Baker [mailto:mason@uamps.com]
Sent: Monday, October 26, 2020 11:42 AM
To: Olson, Suzette M <olsonsm@id.doe.gov>
Cc: Payne, Mark B <paynemb@id.doe.gov>; Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Scott Fox <scott@uamps.com>; Nathan Hardy <Nate@uamps.com>
Subject: [EXTERNAL] UAMPS execution Assistance Agreement

Suzette,

Please find attached UAMPS' execution of the Assistance Agreement. Please let me know if you have any questions regarding the attached.

Best,

Mason Baker
General Counsel

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UAMPS Legal (b) (6)

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ASSISTANCE AGREEMENT

1. Award No. DE-NE0008935		2. Modification No.		3. Effective Date 10/16/2020		4. CFDA No. 81.121	
5. Awarded To CFPP LLC Attn: Carolyn Beatty 155 N 400 W STE 480 SALT LAKE CITY UT 841031150				6. Sponsoring Office Office of Nuclear Energy NE-1 U.S. Department of Energy 1000 Independence Avenue, S.W. Washington DC 20585			7. Period of Performance 10/16/2020 through 10/15/2030
8. Type of Agreement <input type="checkbox"/> Grant <input checked="" type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other		9. Authority See Text below for Block 9			10. Purchase Request or Funding Document No. See Schedule		
11. Remittance Address CFPP LLC Attn: CFPP LLC 155 N 400 W STE 480 Salt Lake City UT 84103				12. Total Amount Govt. Share: \$1,355,218,559.00 Cost Share : \$4,644,781,441.00 Total : \$6,000,000,000.00		13. Funds Obligated This action: \$4,250,000.00 Total : \$4,250,000.00	
14. Principal Investigator		15. Program Manager Melissa C. Bates Phone: 301-903-0930			16. Administrator U.S. Department of Energy Idaho Operations Office 1955 Fremont Avenue Idaho Falls ID 83415		
17. Submit Payment Requests To VIPERS https://vipers.doe.gov Any questions, please contact by call/email 855-384-7377 or VipersSupport@hq.doe.gov				18. Paying Office VIPERS https://vipers.doe.gov Any questions, please contact by call/email 855-384-7377 or VipersSupport@hq.doe.gov		19. Submit Reports To See Attachment b3	
20. Accounting and Appropriation Data							
21. Research Title and/or Description of Project Commercialization and Deployment of the First NuScale SMR in the U.S.: The Carbon Free Power Project (CFPP)							
For the Recipient				For the United States of America			
22. Signature of Person Authorized to Sign <i>Douglas O. Hunter</i>				25. Signature of Grants/Agreements Officer Signature on File			
23. Name and Title President, CFPP LLC		24. Date Signed 10/26/2020		26. Name of Officer Suzette M. Olson		27. Date Signed	

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ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>DUNS Number: 117683168</p> <p>Text for block 9 - Authority: 42 U.S.C. 2011 §§ 2011, 2013-2014, 2051-2053, Atomic Energy Act of 1954, as amended by the Department of Energy Organization Act of 1977, as amended.</p> <p>The project scope of work will cover a 10-year period, the total estimated amount of the award could be up to \$6 Billion. The initial budget period will be for two years. The total cost of the initial two-year budget period is \$ 108,972,536. The DOE will incrementally obligate up to \$85,685,481 for the initial two-year budget period. In addition to this amount, DOE will send \$420,000 to the FFRDC (Idaho National Laboratory). These amounts are subject to the availability of appropriations. The first incrementally funded amount for the first budget period is \$4,250,000.</p> <p>The primary objective of the Carbon Free Power Project (CFPP or the Project) is to construct and operate a 12-module NuScale Small Modular Reactor (SMR) plant. In addition to providing affordable, safe, secure, and resilient carbon-free power, the CFPP will accelerate the first-time deployment and commercialization of SMR technology, supporting the U.S. Department of Energy's (DOE) objectives to enhance U.S. economic and energy security.</p> <p>This project is the culmination of the effort started between DOE and NuScale Power in 2015 with DOE Cooperative Agreement DE-NE0008369. Previous DOE support has focused on site selection, project planning, and characterization of the preferred site. Completing the CFPP will enable DOE to achieve its objective to promote the accelerated commercialization of SMRs.</p> <p>CFPP LLC will finalize the design of, fabricate, license, construct, and start-up a first-of-a-kind (FOAK) NuScale SMR plant at the Idaho National Laboratory (INL) site. The project scope includes engineering, analysis, regulatory activities, fabrication, procurement, construction, start-up testing, and commissioning of the FOAK plant, as well as engagement with diverse stakeholders, including the Nuclear Regulatory Commission (NRC), Institute of Nuclear Power Operations (INPO), Idaho state agencies,</p> <p>Continued ...</p>				

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	<p>local groups, the Shoshone-Bannock Tribes, and other entities comprising a broad cross-section of the CFPP LLC members. The scope of the project will test and demonstrate essentially all aspects of deploying an SMR technology.</p> <p>The objectives of the project are as follows:</p> <ul style="list-style-type: none"> • To promote the accelerated commercialization of SMRs as an affordable, safe, secure, and resilient source of nuclear power in order to help meet the nation’s economic and energy security objectives; • Deploy SMR technology as a source of affordable, safe, and resilient carbon-free power; • Diversify the CFPP energy generation portfolio; • Partner with utilities, industry suppliers, and contractors to deliver a FOAK technology; and • Overcome first-mover challenges to enable others to deploy SMR or similar technology and share licensing practices. <p>The NuScale SMR design offers innovative and unique features that form the foundation for accelerating advancements in the deployment of nuclear energy. These features include: enhanced passive safety systems with no need for AC or DC safety related power; multiple small nuclear power units within a single reactor building; operation of multiple modules from a single control room, intrinsic security provisions; smaller plant footprints and emergency planning zones, potentially as small as the site boundary; factory-built nuclear steam supply and containment systems with factory-based inspections and testing; simplified emergency planning provisions; and the potential of ‘island mode’ power in the event of loss of the grid.</p> <p>The overall price ceiling of the award for the 10 one-year budget periods is approximately \$6 billion.</p> <p>SPECIAL CONDITIONS</p> <p>See Attachment B6 - Special Conditions - for a list of conditions associated with this financial assistance award.</p> <p>EXECUTION AND COMMENCEMENT OF WORK.</p> <p>The Recipient shall indicate acceptance of the Continued ...</p>				

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	<p>financial assistance cooperative agreement award by signing and returning this award document to the Contracting Officer no later than 7 days from the initial award date. Upon acceptance by both parties, the Recipient shall proceed with performance of the work, including purchase of necessary materials.</p> <p>LIMITATION OF GOVERNMENT LIABILITY</p> <p>In performing this financial assistance cooperative agreement award, the Recipient is not authorized to make expenditures or incur obligations exceeding the amount of Government obligated funds obligated to date plus the associated Recipient cost share requirement budgeted to date. The maximum amount for which the Government shall be liable, if this financial assistance cooperative agreement is terminated, is the amount of funds obligated to date. Additionally, only approved budget items will be paid by the Government when invoices are submitted for payment.</p> <p>FINANCIAL ASSISTANCE COOPERATIVE AGREEMENT BUDGET NOT FULLY APPROVED AT TIME OF AWARD</p> <p>(a) A financial assistance cooperative agreement without a fully approved budget. DOE has agreed to offer this financial assistance cooperative agreement award, without a fully approved budget at time of award. The Recipient agrees to begin promptly negotiating with the Contracting Officer the terms of the financial assistance cooperative agreement award that will include: (1) all terms and conditions required by DOE and the regulations at 2 CFR 200 and 2 CFR 910 on the date of execution of the financial assistance cooperative agreement award; (2) all terms and conditions required by law on the date of execution of the financial assistance cooperative agreement award; and (3) any other mutually agreeable terms and conditions.</p> <p>The Recipient has agreed to submit a complete application for Federal financial assistance for the first two years of the project that includes a proposed project budget and budget justification information supporting the Recipient's application in accordance with the schedule in section (b) of this section. The DOE will review the budget and budget justification</p> <p>Continued ...</p>				

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	<p>documents and determine if the proposed budget is fair and reasonably priced. Further negotiation between the parties may be required before the budget is approved. Sections of the budget can be approved one at a time or multiple sections can be approved at one time. When a budget section is approved by DOE, invoices submitted for the approved budget section will be approved for payment as described in Payment for Allowable Costs of this document. For future budget periods the Recipient will provide DOE with a continuation application in accordance with the Continuation clause located in the award's Terms and Conditions document. Budgets for future budget periods will be approved by the DOE prior to the continuation application being approved. After the Continuation application is approved the award completion date will be extended according to the approved budget period.</p> <p>The remaining eight years of the ten-year project can have single year budget periods or multiple year budget periods. The number of budget years in future budget periods will be mutually agreed to by the DOE and the Recipient.</p> <p>(b) The schedule for approving the budget for the first two years of the financial assistance cooperative agreement award and for submission of any required documents to approve the budget is due no later than 30 January 2021. However, this date may be extended, but may not exceed the date that is 180 days after receipt of the qualifying document or prior to completion of 50% of the work to be performed in the first two-year budget period, whichever comes first.</p> <p>(c) If the financial assistance cooperative agreement is not finalized by the target date in paragraph (b) of this section, or within any extension of it granted by the Contracting Officer, the Contracting Officer may, with the approval of the head of the awarding activity, determine a reasonable budget in accordance with applicable financial assistance rules and regulations and applicable cost principles, subject to Recipient appeal. In any event, the Recipient shall proceed with completion of the financial assistance cooperative agreement award, subject only to the Limitation of Government Liability clause.</p> <p>(d) After the Contracting Officer's determination</p> <p>Continued ...</p>				

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	<p>of the budget, the financial assistance cooperative agreement award shall be governed by-</p> <p>(i) All terms and conditions required by DOE and the regulations at 2 CFR 200 and 2 CFR 910 on the date of execution of this financial assistance cooperative agreement award for a cost-shared financial assistance cooperative agreement, as determined by the Contracting Officer under this paragraph (c);</p> <p>(ii) All terms and conditions required by law as of the date of the Contracting Officer's determination; and</p> <p>(iii) Any other clauses, terms, and conditions mutually agreed upon.</p> <p>(e) To the extent consistent with paragraph (c) of this section, all clauses, terms, and conditions included in this financial assistance cooperative agreement award shall continue in effect, except those that by their nature apply only to the sections of the financial assistance cooperative agreement award budget that have not been approved.</p> <p>PAYMENTS OF ALLOWABLE COSTS</p> <p>(a) Reimbursement. After DOE approves the budget category and the requisite supporting documents, DOE will promptly reimburse the Recipient for allowable costs under this financial assistance cooperative agreement award for the following items:</p> <p>(1) One hundred percent of the approved costs for CFPP direct labor costs, excluding all indirect and fringe benefit costs until a CFPP indirect rate agreement is approved by the Defense Contract Auditing Agency.</p> <p>(2) After review and approval of Recipient's procurement standards document, one hundred percent of the approved other CFPP/UAMPS direct costs for materials and supplies.</p> <p>(3) After review and approval of the Recipient's travel policy document, one hundred percent of the approved travel costs.</p> <p>Continued ...</p>				

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	<p>(4) After review and approval of the Recipient's equipment disposition procedures, one hundred percent of the approved equipment costs.</p> <p>(5) One hundred percent of the approved Consulting costs.</p> <p>(6) One hundred percent of the approved NRC fees.</p> <p>(7) One hundred percent of all the individually approved subrecipient costs, excluding indirect rates and fringe benefit, until a forward rate agreement is approved by the subrecipient's cognizant Federal Agency. No new subrecipient's may be hired by the Recipient to support the project until the Recipient's procurement standards are reviewed and approved by the DOE to ensure the sub-recipient's procurement standards are in accordance with 2 CFR 200.</p> <p>(8) After the Prime recipient completes a Federal Acquisition Regulations (FAR) Part 31.2 cost analysis for each for-profit subcontractor hired and the cost analysis is approved by DOE, one hundred percent of the individually approved subcontractor costs.</p> <p>(a) Limitation of reimbursement. To determine the amounts payable to the Recipient's subcontractors and subrecipients under this financial assistance cooperative agreement award, the Contracting Officer shall determine allowable costs, applicable to for-profit entities, in accordance with the applicable cost principles in FAR Part 31. The total reimbursement made under this paragraph shall not exceed 85 percent of the maximum amount of the Government's liability, as stated in this financial assistance cooperative agreement award, until individual award budget categories are approved by the DOE.</p> <p>(b) Invoicing. Payments shall be made promptly to the Recipient when requested as work progresses, but not more often than once every 30 days, in amounts approved by the Contracting Officer.</p> <p>(c) Allowable costs. For the purpose of determining allowable costs, the term "costs" includes the following:</p> <p>Continued ...</p>				

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ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>(1) Those recorded costs that result, at the time of the request for reimbursement, from payment by cash, check, or other form of actual payment for items or services purchased directly for this financial assistance cooperative agreement award;</p> <p>(2) When the Recipient is not delinquent in payment of costs of financial assistance cooperative agreement award performance in the ordinary course of business, costs incurred, but not necessarily paid, for the following:</p> <p>(i) Supplies and services purchased directly for the financial assistance cooperative agreement award and associated financing payments to subrecipients and vendors, provided payments determined due will be made (a) In accordance with the terms and conditions of a subaward or invoice; and (b) Ordinarily within 30 days of the submission of the Recipient's payment request to the Government;</p> <p>(ii) Materials issued from the Recipient's inventory and placed in the production process for use on the financial assistance cooperative agreement award;</p> <p>(iii) Direct labor;</p> <p>(iv) Direct travel;</p> <p>(v) Other direct in-house costs; and</p> <p>(vi) Properly allocable and allowable indirect costs as shown on the records maintained by the Recipient for purposes of obtaining reimbursement under a Government financial assistance cooperative agreement award with an unapproved budget.</p> <p>(3) The amount of financing payments that the Recipient has paid by cash, check, or other forms of payment to subrecipients or vendors.</p> <p>(e) Audit. At any time before final payment, the Contracting Officer may have the Recipient's invoices or vouchers and statements of costs audited. Any payment may be-</p> <p>(1) Reduced by any amounts found by the Continued ...</p>				

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	<p>Contracting Officer not to constitute allowable costs; or</p> <p>(2) Adjusted for overpayments or underpayments made on preceding invoices or vouchers.</p> <p>STATEMENT OF PROJECT OBJECTIVES</p> <p>The Project Narrative submitted with the Recipient's application, is incorporated herein by reference as part of the Statement of Project Objectives.</p> <p>YEARLY COMPLIANCE AUDITS</p> <p>Yearly financial assistance compliance audits are required by the recipient in accordance with 2 CFR 910.507 - 'Compliance Audits'.</p> <p>PRE-AWARD COSTS</p> <p>The Recipient is approved for reimbursement of costs incurred on or after June 02, 2020, as authorized by the Pre-Award Costs letter dated July 27, 2020, if such costs are allowable in accordance with the applicable Federal cost principals referenced in 2 CFR 200.</p> <p>ANTICIPATED FUNDING</p> <p>There is \$4,300,000 of initial incremental funding being obligated for the award to cover a portion of the Government's cost share ratio for the award's first budget period. Additional funding will be provided incrementally as it becomes available. DOE is also sending funds to applicable DOE Federally Funded Research and Development Centers (FFRDC) to support this effort. The funds sent to the FFRDCs are part of the DOE's cost share requirement.</p> <p>The actual funding, in all budget periods throughout the financial assistance cooperative agreement award, will always be contingent upon the availability of Congressionally appropriated funds. DOE acknowledges that in the request for application for this project, it specified in the Funding Opportunity Announcement (FOA) that Federal funding up to \$1.4 billion could be awarded. DOE acknowledges that the Recipient may demonstrate a total budget of up to a potential</p> <p>Continued ...</p>				

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	<p>maximum of \$6 billion in qualifying project costs for the duration of the award. The project plan and budget may be revised upward from the \$6 billion potential maximum award amount by mutual agreement of the parties.</p> <p>COST SHARING</p> <p>The Recipient's cost share ratio for each budget period must match the total cost share ratio as described on the award's Budget Information Sheet. Therefore, each invoice submitted to the DOE for payment must show the applicable and agreed to cost share ratio for the DOE and the Recipient for the current budget.</p> <p>The Recipient has a strong commitment to and self-interest in the success of the project and in deploying the SMR technology in the commercial marketplace. Evidence of that commitment and interest is found in the Statement of Project Objectives, in the Recipient's Project Management Plan, and by Recipient's willingness to contribute through cost sharing, since the purpose of cost sharing is to ensure that the Recipient has a vested interest in the project's success. The Recipient is required to maintain this commitment by meeting its cost sharing obligations under the award. DOE will affirm Recipient's commitment in part by review and approval of Recipient's Financial Commitment/Funding Plan. Requirements for the Financial Commitment/Funding Plan and the due date are discussed in Attachment B6 - Special Conditions.</p> <p>DOE's rights to cost share reimbursement in the event UAMPS or CFPP LLC terminates or defaults is contained in Attachment B - Special Conditions.</p> <p>AT RISK FOR FINANCIAL CAPABILITY</p> <p>The Recipient is determined to be at risk for financial capability. The reasons for this determination, and the special requirements associated with it, are detailed in the Special Condition entitled, "At Risk for Financial Capability". See Attachment B6 - Special Conditions, for additional information concerning this award requirement.</p> <p>Continued ...</p>				

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NAME OF OFFEROR OR CONTRACTOR
CFPP LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>BUSINESS ETHICS AND CONFLICT OF INTERESTS</p> <p>Within 60 days of the initial award date the Recipient shall have policy/documented instructions in place regarding business ethics and conflicts of interest for its procurement staff, including the documentation and recording of any actions taken to address issues identified with its staff or procurement actions. A copy of the policy/documented instructions will be sent to DOE for review/approval. Any subsequent changes to the policy/documented instructions will also be sent to the DOE for review/approval.</p> <p>INTELLECTUAL PROPERTY (IP) PROVISIONS</p> <p>Intellectual Property (IP) Provisions are approved as specified on GDNP-419. See Attachment B1. As of the effective date of this agreement, the Recipient will comply with all IP activities as required by the terms and conditions of this financial assistance cooperative agreement. All IP provisions flow down to the Recipient's sub-recipients.</p> <p>FRINGE AND G&A RATES</p> <p>Within 60 days of award, the Recipient will submit the approved Defense Contracting Auditing Agency's indirect rate agreement to determine fair and reasonable fringe and indirect rates. The awardee will also submit the same indirect rate agreement document at least 60 days after the continuation application amendment for the next budget period is approved by DOE. If the DCAA approved fringe and indirect rates are lower than the rates used in the application or continuation application, then a minus rate adjustment will be accomplished in order to true up the amount of indirect costs that should have been used from the base award approval date, or the applicable yearly continuation application approval date. For initial application purposes, the Recipient is using their proposed FY20 indirect rates. These indirect rates are considered initial indirect billing rates for this award.</p> <p>NEGOTIATION AND APPROVAL OF INDIRECT RATES</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-NE0008935

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NAME OF OFFEROR OR CONTRACTOR
CFPP LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>(a) Special Definitions. The following special definitions apply to this award:</p> <p>(i) Initial Billing Rate means an agreed to and equitable initial temporary indirect cost rate applicable to a specified period which is used for funding, interim reimbursement, and reporting indirect costs on this specific Federal award pending the establishment of either a Provisional Rate or a Final Rate for the period. The Initial Billing Rate is capped for the time period it is used on the award.</p> <p>(ii) Provisional Rate means a temporary indirect cost rate applicable to a specified period which is used for funding, interim reimbursement, and reporting indirect costs on for this award pending the establishment of either an Equitable Billing Rate and/or a Final Rate for the period.</p> <p>(iii) Final Rate means an indirect cost rate applicable to a specified past period, which is based on the actual costs of the period. A final rate is not subject to adjustment.</p> <p>(b) This award is made using initial billing indirect rate(s). This rate, along with the costs budgeted in association with this initial billing rate, is capped at the amount shown on the Budget pages of the award.</p> <p>(c) Unless otherwise agreed to in writing by the parties, on or before two months after the effective date of the Federal award, the Recipient must a) submit to the contracting officer a current copy of the rate agreement from the Recipient's cognizant Federal agency (if other than DOE - Idaho Operations Office (DOE-ID)) for use on all awards; or b) provide the contracting officer with its complete indirect cost proposal, so that the rates can be negotiated for approval and incorporation in to the award. The information and format for the indirect rate cost proposal will be in accordance with guidance provided by the contracting officer.</p> <p>(d) If the Recipient does not provide a rate agreement or a complete indirect cost proposal within the time specified above, or if the parties cannot agree on the provisional rate, the</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR
CFPP LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Recipient will provide a special report (recipient format) on a quarterly basis to the Contracting Officer detailing its efforts and progress to get a provisional rate established and a tentative date by which an indirect cost proposal will be submitted. The report will also include the current fiscal year's actual indirect pool costs, base costs, and indirect rates through the most current quarter as well as an explanation for significant variances from the initial billing rate.</p> <p>(e) Once established, the award will be modified to have the provisional rate replace the initial billing rate at any time prior to the close of the organization's fiscal year(s). When this occurs, downward adjustments (as necessary) will be made to the award in accordance with the established provisional rate. The provisional rate will also be used on the award going forward, unless further adjusted by the parties to a more current provisional or final rate.</p> <p>(f) If a provisional rate is not established and the initial billing rate is not replaced with the provisional rate prior to the end of the project's budget period, a final rate will be established for that budget period by the contracting officer and downward adjustments will be made as necessary based on the actual allowable costs incurred for the period involved.</p> <p>(g) If no indirect billing rate is established at time of award, then no indirect costs will be paid to the Recipient. See Attachment B6 - Special Conditions - for a further explanation of this award restriction.</p> <p>PROCEDURES FOR MANAGING AND MONITORING INDIRECT COSTS</p> <p>(a) The Recipient is expected to manage its indirect costs during the award. Within 30 days of the effective date of the award, the Recipient shall submit for DOE approval its procedure for developing, managing, monitoring, and adjusting indirect costs. Upon DOE approval of the procedure, the Recipient shall implement the procedure for work performed and costs incurred under the award.</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR
CFPP LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>(b) During the project period, reimbursement of indirect costs will be in accordance with the current approved rate on the award. Reimbursement is limited by the budgeted dollar amount for indirect costs. The Recipient is to manage its indirect costs and DOE is under no obligation to amend the award to provide additional funds for changes in indirect cost rates, except as otherwise stated in the special term entitled, "NEGOTIATION AND APPROVAL OF RATES."</p> <p>(c) At the completion of the agreement, the closeout process will include audits of indirect rates and incurred costs. If the DOE share of the incurred costs is less than the amount reimbursed under the agreement, the Recipient shall refund the difference to DOE. If the DOE share of the incurred costs is greater than the amount reimbursed, but less than the total cumulative obligations, the Recipient may request payment of the difference. If the DOE share of the incurred costs is greater than the total cumulative obligations, DOE will not make additional obligations, reimbursements or payments.</p> <p>NO COST TIME EXTENSIONS</p> <p>Unilateral no cost time extensions by the Recipient will NOT be permitted under this award. The Recipient must request any extension from DOE at least 3 months prior to the award's period of performance end date, unless otherwise agreed to by DOE. Any no cost time extension must receive prior written approval from the DOE Contracting Officer.</p> <p>DIRECT COST FUNDS TRANSFERS</p> <p>The awardee is restricted from transferring funds between direct cost categories. The cumulative amount of such transfers must not exceed \$2,000,000 for the current Budget Period as last approved by DOE. For funds transfers greater than this amount, the Recipient is required to obtain DOE prior approval.</p> <p>INCREMENTAL FUNDING</p> <p>This award is incrementally funded; additional funding is contingent of the availability of Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR
CFPP LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>funds appropriated by Congress for the purpose of this program and future year budget authority.</p> <p>KEY PERSONNEL</p> <p>Key personnel are identified in the application's Project Narrative document in Section 3.2 "Key Personnel" and are incorporated by reference. Changes to designated key personnel or participating organizations require prior written DOE approval.</p> <p>DIRECTLY INCORPORATED ATTACHMENTS</p> <p>Attachment A - Special Terms and Conditions</p> <p>Attachment B1 - Intellectual Property Provisions</p> <p>Attachment B2 - Budget Pages</p> <p>Attachment B3 - Federal Assistance Reporting Checklist</p> <p>Attachment B4 - Statement of Substantial Involvement</p> <p>Attachment B5 - Project Milestones</p> <p>Attachment B6- Special Conditions</p> <p>Point of Contact Sheet</p> <p>***Due to a system issue, the PI does not show in Block 14. The PI for this award is Mason Baker.**"</p> <p>ASAP: NO: STD IMMEDIATE Extent Competed: NOT COMPETED Davis-Bacon Act: YES Delivery: 10/15/2030 Delivery Location Code: 00701 Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue Idaho Falls ID 83415 US</p> <p>Fund: 05350 Appr Year: 2020 Allottee: 02 Report Entity: 500201 Object Class: 25233 Program: 2720998 Project: 0000000 WFO: 0000000 Local Use: 0000000</p>				

From: [Engel, Jackie](#)
To: [Bates, Melissa \(HQ\)](#)
Subject: [EXTERNAL] Outstanding Invoice list - reminder
Date: Monday, November 2, 2020 10:42:17 AM
Attachments: [image001.png](#)
[Invoices needing approval VIPERS as of 11-2-20.xlsx](#)

Hi Melissa,

Please find attached, invoices awaiting review in VIPERS for DE-NE0008369 and DE-NE0008928. Some of the 8369 invoices are past 30 days since submission.

Best Regards,



Jackie Engel
Manager, Financial Compliance
email: jengel@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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Invoice Status Report

Run Date: 11/2/2020

Invoices submitted over 30 days ago are highlighted below:

Funding	Purchase Order	Invoice Number	Amount	Description	Recd. Date	Due Date	Paid Date	Status	Site
	NE0008928	780	\$689,384.88	Staff Aug 08/18/20 - 09/30/20	10/29/2020	11/28/2020		Under Review	ID
	NE0008928	781	\$1,243,346.23	Direct Labor 10/03/20 - 10/16/20	10/29/2020	11/28/2020		Under Review	ID
			\$1,932,731.11	Total on DE-NE0008928					
	NE0008369	763	\$175,013.49	2020 P3 CFPP Cost Share	9/23/2020	10/23/2020		Under Review	ID
	NE0008369	764	\$178,578.85	2020 P4 CFPP Cost Share	9/23/2020	10/23/2020		Under Review	ID
	NE0008369	767	\$131,386.33	2020 P5 CFPP Cost Share	9/30/2020	10/30/2020		Under Review	ID
	NE0008369	768	\$130,227.56	2020 P6 CFPP Cost Share	9/30/2020	10/30/2020		Under Review	ID
	NE0008369	769	\$114,964.05	2020 P7 CFPP Cost Shar and Cost Match	9/30/2020	10/30/2020		Under Review	ID
	NE0008369	782	\$67,860.12	Initial Core Boring - 2020 P8	10/29/2020	11/28/2020		Under Review	ID
			\$798,030.40	Total on DE-NE0008369					

From: [Colbert, Christopher](#)
To: [Bates, Melissa \(HQ\)](#)
Cc: [Mason Baker](#)
Subject: [EXTERNAL] Fwd: Senate E&W Report language FY 21
Date: Tuesday, November 10, 2020 9:00:12 AM

I hope this addresses the concern on use. The number is a separate issue

Advanced Small Modular Reactor Research, Development, and Demonstration.—
The Committee recommends \$100,000,000 for ongoing work to support regulatory development, design, ***and deployment activities***. Consistent with the budget request no funds are provided for the Joint Use Module Plant.

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From: [Onuschak, Rebecca](#)
To: [Mason Baker](#)
Subject: RE: CFPP UAMPS Decision to Proceed
Date: Thursday, November 12, 2020 5:08:00 AM

Thank you! I appreciate the good news, and the supporting talking points.

Becky

From: Mason Baker [mailto:mason@uamps.com]
Sent: Tuesday, November 10, 2020 10:39 PM
To: Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>
Cc: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Nathan Hardy <Nate@uamps.com>
Subject: [EXTERNAL] CFPP UAMPS Decision to Proceed

Becky,

I reaching out to relay some good news regarding the UAMPS Participants' decision to proceed forward with further development work for the CFPP. Earlier today, the CFPP Project Management Committee approved moving forward with a budget totaling approximately \$11.9M for further CFPP development work. This was a significant decision by the remaining participants in the project, who represent a very committed group. That said, garnering additional subscription will continue to be a top priority over the next six months. The other two areas of focus will be further evaluation associated with a NuScale 6-pack configuration utilizing the uprate for each NuScale Power Module at 77MWe and focusing on COLA development.

I'm attaching the talking points that the Participants are using to brief their governing bodies. UAMPS welcomes any questions that you may have in regards to the above or the attached.

Lastly, UAMPS sincerely appreciates DOE's continued support of the CFPP and looks forward to working with you and others at DOE to make this project successful.

Very best,

Mason Baker
General Counsel

This document is intended only for the use of the individual or entity to whom it is addressed and may contain information that is privileged and confidential, or that constitutes work product and is exempt from disclosure under applicable law. If you are not the intended recipient of the employee or agent of the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us by telephone and destroy this document.

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From: [Scott Fox](#)
To: [Olson, Suzette M](#)
Cc: [Bates, Melissa \(HQ\)](#); [Payne, Mark B](#); [Mason Baker](#); [Shauna Sowles](#); [Carolyn Beatty](#)
Subject: [EXTERNAL] CFPP LLC - DE-NE0008935 - POLICY SUBMITTAL (3)
Date: Friday, November 13, 2020 9:59:01 AM
Attachments: [BIL-7 Subcontractor Monitoring Billing Policy.doc](#)
[BIL-8 Billing of Indirect Costs Policy.doc](#)
[CA-3 Cost Accounting for Indirect Costs Policy.doc](#)

Suzette,

In accordance with the Award Cover Page 13 CFPP LLC is attaching the three policies (BIL-7, BIL-8 and CA-3) related to developing, managing, monitoring and adjusting indirect rates for your approval - due 30 days of award.

In accordance with Award Cover Page 11, CFPP LLC's provisional billing rates have been approved by DCAA, however, pursuant to Mark Payne's request and noted discrepancy, the budget needs to be updated. Once the budget has been updated, CFPP LLC will resubmit the new rates to DCAA for review - due 60 days of award.

If you have any questions, please do not hesitate to contact myself or Mason Baker.

Thanks!

Scott

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SUBCONTRACTOR MONITORING & BILLING POLICY POLICY NUMBER BIL-7

I. PURPOSE

The purpose of this policy is to set forth CFPP LLC's policy for ensuring that the use of subcontractors and related subcontract costs are treated properly during the billing process.

II. POLICY

It is the policy of CFPP LLC that adequate documentation on subcontractor accounting and billing systems will be obtained from subcontractors utilized by the Company. Subcontractors will be monitored by the Company to assure compliance with Government policy. For cost reimbursable type subcontracts, documentation should include adequate policies and procedures for identification and timely resolution of subcontractor overpayments, refunds and offsets. Timely adjustment of billings or submission of offsets or refunds to the Government will be made for any identified subcontractor overpayments that have been included in prior billings to the Government.

III. SCOPE

This policy is applicable to all billings of subcontractor costs.

IV. DEFINITIONS

Subcontract – A contract issued by CFPP LLC to a consultant or subcontractor to furnish nonstandard supplies or services, which require unique techniques for preparation, award and administration. It includes, but is not limited to, contract changes and modifications to the original contract with the subcontractor.

V. TECHNICAL REFERENCES

1. Federal Acquisition Regulations (FAR), Part 42.202 (e)(2), *Assignment of Contract Administration*
2. Defense Contract Audit Agency (DCAA) Contract Audit Manual (CAM), 5-1100 *Audit of Billing System Internal Controls*
 - 5-1107.7 *Subcontractor Progress Payments, Performance-Based Payments and Commercial Financing Payments*
 - 5-1107.11 (d) *Contract Overpayments, Refunds and Offsets – Subcontractor Reviews*



3. Federal Acquisition Regulations (FAR), Part 52 *Solicitation Provisions, 52.232-16 (j) Progress Payments- Financing Payments to Subcontractors*
4. Federal Acquisition Regulations (FAR), Part 52 *Solicitation Provisions, 52.232-32 Performance-Based Payments- Financing Payments to Subcontractors*
5. Federal Acquisition Regulations (FAR), Part 52 *Solicitation Provisions, 52.232-7 Payments Under Time-and-Materials and Labor-Hour Contracts*
6. Federal Acquisition Regulations (FAR), Part 52 *Solicitation Provisions, 52.206 (c) Solicitation Provisions and Contract Clauses*
7. Federal Acquisition Regulations (FAR), Part 52 *Solicitation Provisions, 52.216-7, Allowable Cost and Payment*
8. 2 CFR 200 - Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards
9. 2 CFR 910 – *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*
10. Cooperative Agreement Award DE-NE0008935

VI. PROCEDURES:

The billings of subcontract costs are subject to the billing policies and procedures applied to prime contract costs and documented within CFPP LLC's Accounts Receivable & Billing policies, as well as some additional requirements identified for subcontract billings within the Defense Contract Audit Agency's *Contract Audit Manual* and the FAR. Requirements are based on the type of subcontract – firm fixed price, cost reimbursable, time and materials and labor hour type of subcontracts. The Company's policy for all type of subcontracts is documented below and is based on requirements of FAR regulations.

Review of Subcontractor's Accounting & Billing System

Prior to award of subcontracts to qualified suppliers and/or subcontractors and during the bid proposal process, the Company will determine the reliability and accuracy of the accounting and billing systems of potential subcontractors in order to ensure that only accurate and allowable costs will be billed by the potential subcontractor on possible future awards by obtaining evidence in the following manner:

- Obtain from the prospective subcontractor evidence or certification that their cost accounting, procurement, estimating, billing and/or government property systems have been previously approved by the Government, or by another prime contractor that has administered a flexibly-priced subcontract under a government contract;



- As an alternative, the Company may request from the prospective subcontractor information regarding their ability to identify and bill costs by contract, to include current written billing and accounting procedures, examples of project cost ledgers, or sample invoices submitted to other customers demonstrating an ability to approve the subcontractor for progress billings.

Documentation of the Company's review of its potential subcontractor's accounting and billing systems should be maintained by the Company, including documents reviewed and the determined conclusion.

Monitoring of Subcontractor Billings

The Company will monitor activity with and billings from subcontractors throughout each billing period. The following items are considered:

- 1) Contracts or subcontracts with Cost Share Provisions should be monitored in accordance with FAR and 2 CFR 200 and contract terms.

Please refer to CFPP LLC's *Billing Invoice Preparation policy* for additional information.

Specific Monitoring Activities

Company personnel are responsible for performing the following activities:

- Evaluation of each invoice before payment for each of the following items:
 - Ensure invoices are within subcontract terms and conditions, and that there are no performance issues that would otherwise restrict payment; Project Director will promptly notify Accounting if a performance issue arises;
 - Accounting will compare the invoiced amount to the most current funding or target cost as specified in the subcontract; and will coordinate with the Project Director to determine that the subcontractor invoice is within the most current subcontract funding or agreed-to price limitations;
 - Accounting reviews each invoice received from the subcontractor and compares the cumulative costs billed on the previous invoice to the cumulative costs billed on the current invoice to ensure that the amounts billed are correct and no invoices or costs appear to be missing;
 - Accounting will determine if obvious unallowable costs are included in the invoice, and make adjustments if necessary, before payment to the subcontractor;
 - Accounting will determine if any overpayments, credits, or refunds due from the subcontractors have been reflected in the invoices.



- Accounting will review any invoice/ billing adjustments to ensure that such adjustments are reflected in subsequent invoices submitted by the applicable subcontractor.
- As noted above, the Company is required to ensure that the subcontractor has an approved accounting and billing system in place prior to the subcontract award. This includes ensuring that the subcontractor's accounting and/or billing system can identify any overpayments or underpayments made by the Company, or other situations that require a refund, offset, or other adjustment to subsequent subcontract invoiced and/or CFPP LLC payments. CFPP LLC should be promptly notified by the subcontractor of any overpayments, refunds and/or offsets. All relevant overpayment, refund and/or offset information should be provided to the Company.
- Periodically determining that the subcontractor is performing reconciliations of its invoices to amounts paid by CFPP LLC to ensure that overpayments/underpayments are quickly resolved; The Company should be notified by the subcontractor if payments do not appropriately reconcile with the subcontractor's invoices.

Contractor's Procedures If Access Is Denied to Subcontractor's Accounting Data

If either full or partial access to the subcontractor's accounting data is denied by the subcontractor which prohibits CFPP LLC (prime contractor) from adequately monitoring its subcontracts, CFPP LLC (prime contractor) should maintain documentation of all correspondence from the subcontractor which indicates that access to the subcontractor's accounting data was denied.

If the denied access prohibits CFPP LLC from adequately monitoring its subcontracts, the Company is responsible for notifying its Administrative Contracting Officer (ACO)/Procurement Contracting Officer (PCO) for assistance in obtaining access to the pertinent subcontractor accounting data. Correspondence from the Company (prime contractor) to the Company's ACO/PCO should be maintained by CFPP LLC for future reference.

Please refer to CFPP LLC's *Billing Invoice Preparation policy* for additional information regarding the Company's billing policies and procedures.



CFPP LLC	
Document Title: Subcontractor Monitoring & Billing Policy	
Approved By:	Date:
<u>Revisions</u>	<u>Date of Revision</u>



BILLING OF INDIRECT COSTS POLICY

POLICY NO: BIL-8

I. PURPOSE

The purpose of this policy is to set forth CFPP LLC's policy for ensuring that indirect costs are properly billed based on current approved provisional indirect rates.

II. POLICY

It is the policy of CFPP LLC that all costs classified as indirect costs should be billed based on current approved provisional indirect rates. Provisional rates will be properly calculated and approved by appropriate individuals. Incurred cost proposals are prepared and submitted annually.

III. SCOPE

This policy is applicable to all indirect costs included within billings issued by the Company in conjunction with U.S. Government contracts and subcontracts.

IV. DEFINITIONS

Indirect Costs - Any cost not specifically identified with one project or final cost objective, but rather incurred for the benefit of, or caused by, two or more projects or final cost objectives. It is not subject to treatment as a direct cost.

V. TECHNICAL REFERENCES

1. Federal Acquisition Regulations (FAR) 52.216-7, *Allowable Costs and Payment*
2. Federal Acquisition Regulations (FAR) 42.704, *Billing Rates*
3. Federal Acquisition Regulations (FAR) 31.205, *Selected Costs*
4. Federal Acquisition Regulations (FAR), Part 42.705 *Final Indirect Cost Rates* Federal Acquisition Regulations (FAR) Part 31-- *Contract Cost Principles and Procedures*
5. DCAA Contract Audit Manual, 5-1100 Section 11 – *Audit of Billing System Internal Controls*
6. Federal Acquisition Regulations (FAR) 52.216-7, *Allowable Costs and Payment*
7. 2 CFR 200 Subpart E – *Cost Principles Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Award*
8. 2 CFR 910 – *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*
9. Cooperative Agreement Award DE-NE0008935



VI. PROCEDURES:

Billing of Indirect Costs

Invoiced indirect costs are based on application of the most current approved provisional indirect rates for the current fiscal year. Along with direct costs, as discussed at CFPP LLC’s *Billing of Direct Costs Policy, policy no. BIL-6*, the indirect costs are also reflected within the Project Cost Summary (PCR) for each project on a year-to-date, contract-to-date, and period-to-date basis. Indirect costs included within the applicable PCR and billed to Government customers are based on the application of these rates to the current billing period actual contract allocation bases for those indirect cost centers.

Provisional rates are based on forecasts and exclude FAR 31.205 unallowable and contract restricted costs. Accounting Management reviews these rates annually and assesses whether any change in the rates is needed based on past history and forecasts of the upcoming year. The proposed provisional billing rates are reviewed with the Management for input and approval. An annual review of all existing contract billing rates is performed in order to ensure compliance with FAR 52.216-7 and FAR 42.704.

Throughout the year, actual indirect costs are recorded in the Unanet accounting system by the Accounting Department to either an Allowable Costs general ledger account or an Unallowable Costs general ledger account. The indirect costs are then posted to the pool accounts that have been set up in Unanet. Throughout the year, as well as, at year end, Unanet allocates the total indirect costs in the pool accounts to the direct cost allocation base. Once the allocation of indirect costs is completed, a percentage is established (actual rate) that identifies how the indirect costs are allocated from the pools to the specific contracts. Expenses charged to the indirect accounts are closely monitored by the Accounting Management on a monthly basis to ensure costs are properly posted and accurately distributed to the appropriate accounts.

CFPP LLC Indirect Rate Structure

CFPP LLC maintains the following indirect cost pools:

Indirect Cost Center	Allocation Base Components
<i>Final Pools:</i>	
General & Administrative (G&A)	<p><u>Value Added allocation base:</u> Value Added Base (base includes costs for all direct labor dollars, direct travel, other direct costs (ODC), unallowable costs and excludes direct material and subcontract costs, subrecipient costs, and Federally Funded Research and Development Center (FFRDC) costs.</p>



Period End Procedures for Indirect Costs and Rates

At month end, Accounting calculates actual indirect year-to-date rates and compares those rates to the approved provisional rates to determine if significant variances between actual rates and provisional rates are occurring. Accounting is responsible for monitoring this process for CFPP LLC.

Accounting obtains the actual indirect rates and costs using the Statement of Indirect Expenses Report generated within Unanet. Any significant variances between the actual indirect rates and provisional rates are identified by Accounting and investigated to determine the cause of the variance. The significant variances and the related cause of the variances are then discussed and reviewed with the Accounting Management during the review of the monthly financial package.

The Company also utilizes an outside consulting firm for guidance on the Company’s compliance regarding the allowability and allocability of costs to the Company’s different indirect cost pools.

Incurred Cost Proposal

Incurred costs proposals, to include claimed final year-end indirect rates, are prepared and submitted annually within six months of the end of the fiscal year by CFPP LLC in accordance with the FAR 42.705 and FAR 52.216-7 contract clauses. The Company will adjust invoiced indirect amounts to the actual approved year-end indirect rates as soon as administratively possible after approval is received. The year-end adjustments to actual rates are typically included on the invoice for the next billing period. Year-end rate adjustments are closely monitored by Accounting Management in order to ensure accuracy of the invoices being generated. For more information regarding the Company’s policy on incurred cost proposal, see *Incurred Cost Proposal Policy, policy no. CA-5*.

CFPP LLC	
Document Title: Billing of Indirect Costs Policy	
Approved By:	Date:
<u>Revisions</u>	<u>Date of Revision</u>



COST ACCOUNTING FOR INDIRECT COSTS**POLICY NUMBER: CA-3**

I. PURPOSE

The purpose of this policy to define CFPP LLC's practices for accumulating and allocating indirect costs to final cost objectives in accordance with applicable U.S. Government Federal Acquisition Regulations (FAR) and other regulatory requirements.

II. POLICY

It is the policy of CPFF LLC that costs incurred for the benefit of several and/or all contracts/tasks and cannot be identified to a specific contract/task are recorded as indirect costs and allocated to final cost objectives in accordance with applicable U.S. Government Federal Acquisition Regulations (FAR) and other regulatory requirements. All costs shall be consistently classified and charged to final cost objectives as either direct or indirect costs.

III. SCOPE

This policy and applicable procedures should be applied to all contracts and subcontracts held by CFPP LLC.

IV. DEFINITIONS

Final Cost Objective - A cost objective which has allocated to it both direct and indirect costs, and in the cost accounting system, is one of the final accumulation points of direct and indirect costs. Examples of final cost objectives are contracts, task orders, and finished goods inventory.

Direct Costs - Any cost which can be identified specifically to a contract or final cost objective and does not benefit more than one contract or project.

Indirect Costs - Any cost not specifically identified with one project or final cost objective, but rather incurred for the benefit of, or caused by, two or more projects or final cost objectives. It is not subject to treatment as a direct cost.

V. TECHNICAL REFERENCES

1. Federal Acquisition Regulations (FAR), Part 31 and 2 CFR 200 Subpart E Cost Principles
2. CAS 418 – Allocation of Direct and Indirect Costs



VI. PROCEDURES:

1. General Guidelines

Identification of Indirect Costs

It is CFPP LLC's policy that all costs shall be consistently classified and charged to final cost objectives as either direct or indirect costs as stated in CFPP LLC's *Basic Cost Accounting Policy, policy no. CA-1*. Consistent with FAR 31.203 and CAS 418, indirect costs shall be captured in logical/ homogeneous cost groupings (cost pools) and accumulated at the expense account level within each individual indirect cost center.

An allocation base, common to all cost objectives in which the cost pool is to be allocated, is used to allocate cost to final cost objectives/projects. An allocation base should:

- Reflect a causal/beneficial relationship to the indirect cost pool.
- Represent an assignment of indirect costs to cost objectives in a reasonable proportion to the benefits received by that indirect cost pool.
- Not be fragmented by removing elements of the allocation base, initially elected to represent that base; for example, if the G&A base is defined as a value added base, then that same base shall remain consistent for identification of G&A costs to all contracts.
- Include all costs for the base selected, including the base cost that is considered unallowable or that will be deducted on a voluntary basis for purposes of allocating costs to Government contracts/ final cost objectives.

CFPP LLC shall be consistent in the identification of direct and indirect costs which are incurred for similar purposes in like circumstances.

Allocation of Indirect Cost

The allocation of indirect costs to projects shall be done by calculating a rate/value (total cost pool divided by total allocation base) representative of CFPP LLC's entire cost accounting structure and multiplying that rate by the allocation base for the specific cost objective.

Consistent with requirements of FAR 31.203(g) and CAS 406, the cost accounting period used to allocate indirect costs shall be the Company's fiscal year, which is March 31.

CFPP LLC's cost accounting structure shall be maintained in such a manner that allows year-to-date calculations of actual incurred indirect rates.



Management shall periodically evaluate the indirect cost structure to determine if existing cost allocation methods provide equity and reasonableness in the assignment of indirect costs to final cost objectives. Events that may require changes to the indirect cost structure include, but are not limited to, changes in U.S. Government Regulations, financial goals, organization structure, business conditions, product lines, etc.

The Company shall identify and segregate all unallowable indirect costs, to include directly associated costs, in accordance with the policy identified as *Unallowable Costs Policy, policy no. CA-4*.

CFPP LLC’s Indirect Rate Structure:

The indirect cost centers and respective allocation bases for CFPP LLC that are currently utilized are, as follows:

Indirect Cost Center	Allocation Base Components
<i>Final Pools:</i>	
General & Administrative (G&A)	<p><u>Value Added allocation base:</u> Value Added Base (base includes costs for all direct labor dollars, direct fringe costs, direct travel, other direct costs (ODC), unallowable costs and excludes direct material, subcontract costs, subrecipient costs, and Federally Funded Research and Development Center (FFRDC) costs.</p>

The functions and cost components of the G&A expense pool is summarized as follows:

General & Administrative

Functions of this pool include the overall administration and management of CFPP LLC. Functions include accounting, supplies, consulting, rent, supplies, depreciation, insurance, training, and fringe benefits and associated indirect expenses from the Intermediate home office. Additional costs in this pool are Bid & Proposal (B&P) and Independent Research and Development (IR&D) related costs including labor, and related fringe allocations.

The G&A indirect cost center allocation base is a value-added input base, which includes direct labor, direct fringe costs, direct travel, other direct costs, unallowable costs. Indirect costs which are excluded from the base are G&A expenses, direct material, and subcontracts. Federally Funded Research and Development Center (FFRDC) costs are not included in the pool or G&A base.



CFPP LLC	
Document Title: Cost Accounting for Indirect Costs Policy	
Approved By:	Date:
<u>Revisions</u>	<u>Date of Revision</u>

From: [Payne, Mark B](#)
To: [Bates, Melissa \(HQ\)](#); [Onuschak, Rebecca](#)
Cc: [Feldman, Karin A](#); [Olson, Suzette M](#); [Brown, Bradley N](#)
Subject: NuScale Award
Date: Monday, November 30, 2020 11:22:52 AM
Attachments: [A-017 Budget Information Sheet DE-NE0008928\(V2\) - 007.pdf](#)

Attached is the budget sheet for the NuScale BP2 continuation application. NuScale has agreed/approved the budget sheet. Please review and let me know if NE is good with the budget sheet.

Are we going to add any funds to the award with this amendment. By the time 31 Dec 2020 rolls around there will not be any funds available for NuScale to draw from. If we don't add funds with this amendment then we'll have to accomplish another amendment in January to add additional funds, this is extra work for all involved.

I'm ready for the CO to approve the amendment for the BP2 continuation application. Still need the technical review accomplished and Rebecca added to the STRIPES Program Manager's list.

Thanks,

Mark

Mark B. Payne, Contracting Officer
U.S. Department of Energy – Idaho Operations Office
P: (208) 526-3127; F: (208) 526-5548
Email: paynemb@id.doe.gov

**U.S.Department of Energy
Federal Assistance Budget Information**

1. Award Number: DE-NE0008928	2. Awardee Name and Address: NuScale Power LLC 6650 SW REDWOOD LANE Portland, OR97224-7192
3. Mod Number: 007	
4. Project Title: NuScale Small Modular Reactor (SMR) First-of-a-Kind (FOAK) Nuclear Demonstraton Readiness Project Completion	5. Project Period: 02/04/2020 - 12/31/2024

SECTION A - BUDGET SUMMARY

Budget Period	Start Date	End Date	Federal	Non-Federal	Total Approved Budget	Total Obligated Federal Funds
1	(b)(4)					
2						
3						
4						
5						
TOTALS						

SECTION B - BUDGET CATEGORIES

Object Class Categories	Period 1	Period 2	Period 3	Period 4	Period 5	Total
Personnel	(b)(4)					
Fringe Benefits						
Travel						
Subcontracts						
Indirect Costs						
Contract Labor						
NRC Fees/Subcontractors						
Total						

SECTION C - FFRDC FUNDING

Share	Period 1	Period 2	Period 3	Period 4	Period 5	Total
DOE Share	(b)(4)					
Awardee Cost Share						
FFRDC						
Total						

Note 1: All estimated future budget allocations are subject to availability of funds.

Note 2: FFRDC funding will be provided directly to the lab and will not be available to Awardee.

From: [Miller, Mike](#)
To: [Bates, Melissa \(HQ\)](#); [Olson, Suzette M](#); [Onuschak, Rebecca](#)
Cc: [Feldman, Karin A](#); [Beville, Tim](#); [Aljayoushi, Jihad](#); [Payne, Mark B](#); [Ford, Brayton J](#); [Mason Baker](#); [Nathan Hardy](#); [Scott Fox](#); [Colbert, Christopher](#); [Adelman, Julie](#); [Ehlers, Jeffrey](#); [Campbell, Beth](#)
Subject: [EXTERNAL] Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution
Date: Friday, December 11, 2020 5:23:30 PM
Attachments: [image001.png](#)
[Plan for scope transition and core boring cost share resolution for DE-NE0008369 signed.pdf](#)

DOE DE-NE0008369 Award Management

Attached is a memo describing the plan from now to award closeout regarding the transition of scope to the new UAMPS award (DE-NE0008965) and to reconcile the cost share from the core boring reimbursement allowed in Mod 0012. This memo is archived on the NuScale CFPP secure Watchdox site here:

<https://securedocs.nuscalepower.com/ngdox/workspaces/43/DOE%20Award%7CDOE%20Communications%7CDOE%20Reports%7CDE-NE0008369%20Other%20Reports%20and%20communications%7CDecember%202020%20Transition%20and%20Core%20Boring%20plan>

If there are questions, please let us know and we can set up a call to discuss.

Regards,



Mike Miller
CFPP Project Manager
 email: mmiller@nuscalepower.com
 web: www.nuscalepower.com
 office: (b) (6)

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Document 34 (Attachment)

December 11, 2020

U.S. Department of Energy
 Idaho Operations
 1955 Fremont Avenue MS 1221
 Idaho Falls, ID 83415

ATTN: Suzette Olson – Contract Officer; Melissa Bates - Program Manager (outgoing), Rebecca Onuschak Program Manager (incoming)

SUBJECT: End of award scope transition and core boring cost share resolution for DOE Award No. DE-NE0008369

Dear Suzette, Melissa and Rebecca:

This letter is to inform the DOE Award DE-NE0008369 management that NuScale and UAMPS have agreed to a plan that defines the remaining scope of the award in the context of the new UAMPS award (DE-NE0008965), and resolves the full award cost share back to 50% per the terms under Mod 0012 of the award. This plan is as follows:

- The project will continue to request cost share of the initial core drilling work scope at 100%, per mod 0012 of the award, through March 2021. We estimate the total of the 100% cost share request to be ~ \$2.4M.
- NuScale work scope to manage and close out the award will continue through March 2021.
- All other award work scope, including UAMPS labor and subcontracts not related to the initial core boring, has transitioned from the DE-NE0008369 award to the DE-NE0008965 as of October 31, 2020.
- FFRDC support has transitioned from DE-NE0008369 to DE-NE0008965 as of December 1, 2020.
- Any and all work scope of the DE-NE0008369 award will complete by the end of March 2021, save for final invoicing and reporting.
- After the completion of the work scope at the end of March 2021, UAMPS and NuScale will refund to the DOE the total project cost share in excess of 50%. This is estimated to be a payment of ~\$1.2M.

This describes how the CFPP project team will bring award DE-NE0008369 to a close. A summary of forecasted costs to the end of the award can be provided if desired. The CFPP project team continues to be very grateful for the support and flexibility from the DOE in this endeavor.

If you have any questions, please feel free to contact me at (541) 360-0569 or at mmiller@nuscalepower.com.

Respectfully,

Mike Miller

NuScale Carbon-Free Power Project Manager

Date
December 11, 2020

LO-0918-61777



Distribution:

DOE: fordbj@id.doe.gov; aljayoj@id.doe.gov; paynemb@id.doe.gov
UAMPS: mason@uamps.com; nathan@uamps.com, scott@uamps.com
NuScale: ccolbert@nuscalepower.com; kfeldman@nuscalepower.com; jadelman@nuscalepower.com;
jengel@nuscalepower.com; becampbell@nuscalepower.com,

The information contained in the letter and attachments have been submitted in confidence and contain trade secrets or proprietary information, and such data shall be used or disclosed only for evaluation purposes. DOE shall have the right to use or disclose the data herein to the extent provided in the award. This restriction does not limit the government's right to use or disclose data obtained without restriction from any source, including the applicant.

From: [Miller, Mike](#)
To: [Onuschak, Rebecca](#)
Subject: [EXTERNAL] RE: Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution
Date: Monday, December 14, 2020 7:27:50 AM
Attachments: [image001.png](#)
[Assistance_DE-NE0008369_Mod_0012.pdf](#)

Would you have time for a today before 11 am or 12-2 Mountain? And what would be a good number?
 Prior to the call, if you haven't already done so, please read through Mod 0012 of the 'old' NuScale CFPP award, and I can fill you in on how we got there.



Mike Miller
 CFPP Project Manager

email: mmiller@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

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From: Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>
Sent: Monday, December 14, 2020 6:29 AM
To: Miller, Mike <mmiller@nuscalepower.com>
Subject: RE: Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution

Thanks. Can we please schedule a conversation about this? I will need some further background.

Becky

From: Miller, Mike [<mailto:mmiller@nuscalepower.com>]
Sent: Friday, December 11, 2020 8:11 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Olson, Suzette M <olsonsm@id.doe.gov>; Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>
Cc: Feldman, Karin A <kfeldman@nuscalepower.com>; Beville, Tim <timothy.beville@nuclear.energy.gov>; Aljayoushi, Jihad <aljayoi@id.doe.gov>; Payne, Mark B <paynemb@id.doe.gov>; Ford, Brayton J <fordbj@id.doe.gov>; Mason Baker <mason@uamps.com>; Nathan Hardy <Nate@uamps.com>; Scott Fox <scott@uamps.com>; Colbert, Christopher <ccolbert@nuscalepower.com>; Adelman, Julie <jadelman@nuscalepower.com>; Ehlers, Jeffrey <JEhlers@nuscalepower.com>; Campbell, Beth <BECampbell@nuscalepower.com>
Subject: [EXTERNAL] Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution

DOE DE-NE0008369 Award Management:

Attached is a memo describing the plan from now to award closeout regarding the transition of scope to the new UAMPS award (DE-NE0008965) and to reconcile the cost share from the core boring reimbursement allowed in Mod 0012. This memo is archived on the NuScale CFPP secure Watchdox site here:

<https://securedocs.nuscalepower.com/ngdox/workspaces/43/DOE%20Award%7CDOE%20Communications%7CDOE%20Reports%7CDE-NE0008369%20Other%20Reports%20and%20communications%7CDecember%202020%20Transition%20and%20Core%20Boring%20plan>

If there are questions, please let us know and we can set up a call to discuss.

Regards,



Mike Miller
 CFPP Project Manager

email: mmiller@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

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ASSISTANCE AGREEMENT

1. Award No. DE-NE0008369		2. Modification No. 0012	3. Effective Date 07/07/2020	4. CFDA No. 81.121	
5. Awarded To NuScale Power, LLC Attn: KARIN FELDMAN 6650 SW REDWOOD LANE SUITE 210 PORTLAND OR 97224		6. Sponsoring Office Office of Nuclear Energy NE-1 U.S. Department of Energy 1000 Independence Avenue, S.W. Washington DC 20585		7. Period of Performance 08/11/2015 through 12/31/2023	
8. Type of Agreement <input type="checkbox"/> Grant <input checked="" type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other	9. Authority 31 USC 6304 10 USC 2358		10. Purchase Request or Funding Document No. 20NE000242		
11. Remittance Address NuScale Power, LLC Attn: NUSCALE POWER LLC 6650 SW REDWOOD LANE SUITE 210 PORTLAND OR 972247192		12. Total Amount Govt. Share: \$63,347,095.00 Cost Share : \$63,347,094.00 Total : \$126,694,189.00	13. Funds Obligated This action: \$2,609,874.67 Total : \$8,971,400.67		
14. Principal Investigator	15. Program Manager Melissa C. Bates Phone: 301-903-0930		16. Administrator Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415		
17. Submit Payment Requests To OR for Idaho U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831		18. Paying Office OR for Idaho U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831		19. Submit Reports To See Reporting Checklist	
20. Accounting and Appropriation Data See Schedule					
21. Research Title and/or Description of Project FIVE-YEAR RENEWAL AWARD FOR THE SITE PERMITTING AND LISCENSING OF THE NUSCALE SMALL MODULAR REACTOR					
For the Recipient			For the United States of America		
22. Signature of Person Authorized to Sign			25. Signature of Grants/Agreements Officer Signature on File		
23. Name and Title		24. Date Signed	26. Name of Officer Suzette M. Olson		27. Date Signed

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-NE0008369/0012

PAGE OF
2 | 3

NAME OF OFFEROR OR CONTRACTOR
NuScale Power, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>DUNS Number: 015923328</p> <p>Text for block 9 - Authority: 42 U.S.C. 2011 §§ 2011, 2013-2014, 2051-2053, Atomic Energy Act of 1954, as amended by the Department of Energy Organization Act of 1977, as amended.</p> <p>Principal Investigator: Christopher Colbert</p> <p>Amendment 0012 adds \$2,609,874.67 in incremental funding. The amount of funds obligated to date is changed from \$6,361,526 to \$8,971,400.67. A revised award budget information sheet showing the incremental funding is attached to this amendment.</p> <p>The following new clause is added to the award: COST SHARING FOR CORE DRILLING PROJECT</p> <p>a. Total Estimated Project Cost is the sum of the Government share and Recipient share of the estimated project costs. The Recipient's cost share must come from non-Federal sources unless otherwise allowed by law. Recipient acknowledges that the Government has agreed to share at a 100% for the core drilling work for the project with the expectation that the recipient shall share at a higher rate during later stages in order to achieve an overall recipient cost-share percentage of at least 50% of the total allowable project costs. By accepting federal funds under this award, you agree that, notwithstanding the budget period cost-share percentages set forth below, you are liable for 50% of the total allowable project costs, even if the project is terminated early or is not funded to completion. If you have not achieved 50% cost-sharing at the time of project termination or discontinuance, you shall refund to the Government an amount that will achieve a Recipient cost-share percentage of 50% based on total allowable project cost. For this award, DOE has determined that the Recipient may use property or in-kind contributions to achieve the required Recipient cost-share percentage. This may include the data obtained through the core drilling work produced for the project and other property owned or developed by the Recipient or any subrecipients under this Federal award. In the event the Recipient elects to provide in-kind compensation to DOE under this paragraph, the acceptance of the in-kind compensation, and its valuation, shall be</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-NE0008369/0012

PAGE OF
3 | 3

NAME OF OFFEROR OR CONTRACTOR
NuScale Power, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>determined by DOE at the time the refund is required. The cost is shared as follows: 50% paid by the DOE and 50% paid by the Recipient.</p> <p>b. If you discover that you may be unable to provide cost sharing of at least the amount identified in paragraph a of this article, you should immediately provide written notification to the DOE Award Administrator identified in Block 12 of the Notice of Financial Assistance Award indicating whether you will continue or phase out the project. If you plan to continue the project, the notification must describe how replacement cost sharing will be secured.</p> <p>c. You must maintain records of all project costs that you claim as cost sharing, including in-kind costs, as well as records of costs to be paid by DOE. Such records are subject to audit.</p> <p>d. Failure to provide the cost sharing required by this Article may result in the subsequent recovery by DOE of some or all the funds provided under the award. End of clause</p> <p>ASAP: NO: STD IMMEDIATE Extent Competed: NOT COMPETED Davis-Bacon Act: NO PI: Christopher Colbert</p>				

From: [Feldman, Karin](#)
To: [Olson, Suzette M](#); [Payne, Mark B](#); [Onuschak, Rebecca](#)
Subject: [EXTERNAL] RE: Alignment with GFY funding assumptions (DE-NE0008928)
Date: Monday, December 14, 2020 7:58:18 AM
Attachments: [image001.png](#)
[2021 CA Budget Justification \(DE-NE0008928\) Resubmit R3.pdf](#)

Thank you. See attached for a revised SF-424a that reflects the updated federal funding assumptions. There were no other changes to the budget justification.

Karin



Karin Feldman
Vice President, Program Management Office

email: kfeldman@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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From: Olson, Suzette M <olsonsm@id.doe.gov>
Sent: Monday, December 14, 2020 7:19 AM
To: Payne, Mark B <PAYNEMB@id.doe.gov>; Onuschak, Rebecca (HQ) <rebecca.onuschak@nuclear.energy.gov>; Feldman, Karin <kfeldman@nuscalepower.com>
Subject: RE: Alignment with GFY funding assumptions (DE-NE0008928)

I concur. Suzette

Suzette M. Olson

Director, Contract Management Division
Department of Energy, Idaho Operations
(208) 526-7385 office
(b) (6) cell
olsonsm@id.doe.gov

From: Payne, Mark B <PAYNEMB@id.doe.gov>
Sent: Monday, December 14, 2020 8:16 AM
To: Onuschak, Rebecca (HQ) <rebecca.onuschak@nuclear.energy.gov>; Feldman, Karin A <kfeldman@nuscalepower.com>
Cc: Olson, Suzette M <olsonsm@id.doe.gov>
Subject: RE: Alignment with GFY funding assumptions (DE-NE0008928)

I agree, In October or November of 2021 we'll have to make adjustments as required.

Mark B. Payne, Contracting Officer
U.S. Department of Energy – Idaho Operations Office

(208) 526-3127 office

(b) (6) cell

Email: paynemb@id.doe.gov

From: Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>
Sent: Monday, December 14, 2020 6:25 AM
To: Feldman, Karin A <kfeldman@nuscalepower.com>
Cc: Payne, Mark B <PAYNEMB@id.doe.gov>; Olson, Suzette M <olsonsm@id.doe.gov>
Subject: RE: Alignment with GFY funding assumptions (DE-NE0008928)

Karin –

I agree that this approach works for the near term, and that we could go ahead and get things moving using these assumptions. However, be advised that it is extremely likely that we will need to adjust this once we have a final budget for FY21. There is no basis to expect front-loaded funds to be available in FY22. This would be virtually impossible during a continuing resolution, and still unlikely even if budgets exist on time.

That said, because we can't be certain of what we are dealing with until this year's budget is final, this may be sufficient placeholder to move forward, if Mark and Suzette agree. The budgets for the remainder of FY21 are likely to be supportable if the budget comes through as anticipated, leaving us time during the summer to evaluate the end of the calendar year plans based on how the FY22 budget is progressing.

Thanks.

Becky

From: Feldman, Karin [<mailto:kfeldman@nuscalepower.com>]
Sent: Thursday, December 10, 2020 1:16 PM
To: Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>; Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Cc: Payne, Mark B <paynemb@id.doe.gov>; Olson, Suzette M <olsonsm@id.doe.gov>
Subject: [EXTERNAL] Alignment with GFY funding assumptions (DE-NE0008928)

Becky and Melissa,

Based on the conversations that have been going on with you both and Mark, we are working to adjust the GFY21 federal funding assumptions in BP-2. Before we resubmit the SF424, I wanted to confirm that the tables below would be acceptable. It is aligned with the GFY21 \$70M limit, but does assume that the \$70M in GFY22 funding could be slightly front loaded. If you are in agreement,

this simplifies the update since we would not need to make any adjustments to the overall program plan, we would just re-balance the cost share in BP-2 rather than BP-5. Let me know if this is acceptable.

Karin

The BP-2 federal funding profile would look like this:

	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	BP-2 total
Federal	17,500,000	17,500,000	17,500,000	19,249,340	71,749,340

The overall \$700M program in the award agreement would look like this (no changes to the totals in the budget justification):

	Total	Federal	Non Federal
BP-1	175,392,670	100,500,000	74,892,670
BP-2	169,106,010	71,749,340	97,356,670
BP-3	159,009,777	79,504,889	79,504,889
BP-4	124,750,145	62,375,073	62,375,073
BP-5	71,741,397	35,870,699	35,870,699
	700,000,000	350,000,000	350,000,000



Karin Feldman
Vice President, Program Management Office

email: kfeldman@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

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Applicant Name: NuScale Power, LLC

Award Number: DE-NE0008928

Budget Information - Non Construction Programs

OMB Approval No. 0348-0044

Section A - Budget Summary						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
NuScale SMR FOAR Nuclear 1. Demonstration Readiness Project Completion	81.121			\$84,553,005	\$84,553,005	\$169,106,010
2.						\$0
3.						\$0
4.						\$0
5. Totals		\$0	\$0	\$84,553,005	\$84,553,005	\$169,106,010

Section B - Budget Categories					
6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel	(b) (4)				
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges					
k. Totals (sum of 6i-6j)	\$169,106,010	\$0	\$0	\$0	\$169,106,010

7. Program Income					\$0
-------------------	--	--	--	--	-----

Section C - Non-Federal Resources					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals	
8. Cost-Shared Development of Innovative Small Modular Reactor Designs					\$0
9.					\$0
10.					\$0
11.					\$0
12. Total (sum of lines 8 - 11)	\$0	\$0	\$0		\$0

Section D - Forecasted Cash Needs					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	\$71,749,340	\$17,500,000	\$17,500,000	\$17,500,000	\$19,249,340
14. Non-Federal	\$97,356,670	\$24,776,502	\$24,776,502	\$24,776,502	\$23,027,163
15. Total (sum of lines 13 and 14)	\$169,106,010	\$42,276,503	\$42,276,503	\$42,276,503	\$42,276,503

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project				
(a) Grant Program	Future Funding Periods (Years)			
	(b) First (BP3)	(c) Second (BP4)	(d) Third (BP5)	(e) Fourth (BP6)
16. Cost-Shared Development of Innovative Small Modular Reactor Designs (NuScale)	\$79,504,889	\$62,375,073	\$35,870,699	\$0
17.				
18.				
19.				
20. Total (sum of lines 16-19)	\$79,504,889	\$62,375,073	\$35,870,699	\$0

Section F - Other Budget Information	
21. Direct Charges	N/A
22. Indirect Charges	N/A

23. Remarks Values in Section D include the approved carry from the prior budget period. For further information on the budget justification file for more complete explanation

SF-424A (Rev. 4-92)

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Instructions for the SF-424A

Public Reporting Burden for this collection of information is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Please do not return your completed form to the Office of Management and Budget; send it to the address provided by the sponsoring agency.

General Instructions

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and where budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a-k of Section B.

Section A. Budget Summary Lines 1-4 Columns (a) and (b)

For applications pertaining to a **single** Federal grant program (Federal Domestic Assistance Catalog number) and **not requiring** a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).

For applications pertaining to a **single** program **requiring** budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the catalog number in Column (b). For applications pertaining to multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to **multiple** programs where one or more programs **require** a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

Lines 1-4, Columns (c) through (g)

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5—Show the totals for all columns used.

Section B. Budget Categories

In the column headings (a) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Lines 6a-i—Show the totals of Lines 6a to 6h in each column.

Line 6j—Show the amount of indirect cost.

Line 6k—Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7—Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program narrative statement the nature and source of income. The estimated amount of program income may be considered by the federal grantor agency in determining the total amount of the grant.

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Section C. Non-Federal Resources

Lines 8-11—Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

Column (a)—Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

Column (b)—Enter the contribution to be made by the applicant.

Column (c)—Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

Column (d)—Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e)—Enter totals of Columns (b), (c), and (d).

Line 12—Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

Section D. Forecasted Cash Needs

Line 13—Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14—Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15—Enter the totals of amounts on Lines 13 and 14.

Section E. Budget Estimates of Federal Funds Needed for Balance of the Project

Lines 16-19—Enter in Column (a) the same grant program titles shown in Column (a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding periods (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants. If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20—Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

Section F. Other Budget Information

Line 21—Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22—Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23—Provide any other explanations or comments deemed necessary.

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The next forty-one (41) pages, is withheld
in full under Exemption B4.

From: [Miller, Mike](#)
To: [Onuschak, Rebecca](#)
Cc: [Engel, Jacqueline Frances](#)
Subject: [EXTERNAL] RE: Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution
Date: Wednesday, December 16, 2020 11:24:48 AM
Attachments: [image001.png](#)
[#The out to CFPP Budget Project to closeout.xlsx](#)

Becky:

As requested on our call, attached is a estimated close out worksheet for the NuScale CFPP award, which backs the memo we sent on Friday. The Summary tab if for the full award by Budget Period, and note Budget Period 3 is multi-year, starting from 2019 to present. The 100% core boring reimbursement invoices and monthly estimates referred to in the memo are on the 'Details' worksheet, rows 103-119.

I've copied the owner of the worksheet, Jackie Engel, who can help me respond if you have questions. We can set up a call to go over.

Regards,



Mike Miller
CFPP Project Manager

email: mmiller@nuscalepower.com

web: www.nuscalepower.com

office: (b) (6)

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From: Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>
Sent: Monday, December 14, 2020 6:29 AM
To: Miller, Mike <mmiller@nuscalepower.com>
Subject: RE: Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution

Thanks. Can we please schedule a conversation about this? I will need some further background.

Becky

From: Miller, Mike [<mailto:mmiller@nuscalepower.com>]
Sent: Friday, December 11, 2020 8:11 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>; Olson, Suzette M <olsonsm@id.doe.gov>; Onuschak, Rebecca <rebecca.onuschak@nuclear.energy.gov>
Cc: Feldman, Karin A <kfeldman@nuscalepower.com>; Beville, Tim <timothy.beville@nuclear.energy.gov>; Aljayoushi, Jihad <aljayoj@id.doe.gov>; Payne, Mark B <paynemb@id.doe.gov>; Ford, Brayton J <fordbj@id.doe.gov>; Mason Baker <mason@uamps.com>; Nathan Hardy <Nate@uamps.com>; Scott Fox <scott@uamps.com>; Colbert, Christopher <ccolbert@nuscalepower.com>; Adelman, Julie <jadelman@nuscalepower.com>; Ehlers, Jeffrey <JEhlers@nuscalepower.com>; Campbell, Beth <BECampbell@nuscalepower.com>
Subject: [EXTERNAL] Cooperative Agreement DE-NE0008369 plan for scope transition and core boring cost share resolution

DOE DE-NE0008369 Award Management:

Attached is a memo describing the plan from now to award closeout regarding the transition of scope to the new UAMPS award (DE-NE0008965) and to reconcile the cost share from the core boring reimbursement allowed in Mod 0012. This memo is archived on the NuScale CFPP secure Watchdox site here:

<https://securedocs.nuscalepower.com/ngdwx/workspaces/43/DOE%20Award%7CDOE%20Communications%7CDOE%20Reports%7CDE-NE0008369%20Other%20Reports%20and%20communications%7CDecember%202020%20Transition%20and%20Core%20Boring%20plan>

If there are questions, please let us know and we can set up a call to discuss.

Regards,

Mike Miller
CFPP Project Manager



email: mmiller@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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Cooperative Agreement No. DE-NE0008369, NuScale - Mod 009

Budget Category	Current	Budget Period	Personnel	Fringe Benefits	Travel	Equipment	Contractual-5A	Contractual	NRC Fees	Other Direct Costs (Capital Expenditures)	Indirect Costs	Total	Non-Fed Share	Federal Share	FRBDC	
Approved Budget	Mod															
BP1	13	8/1/15 - 8/31/16										1,224,978.00	772,489.00	452,489.00	\$	320,000.00
BP2	13	4/1/16 - 12/31/18										5,041,524.00	2,662,649.00	2,378,875.00	\$	211,108.00
BP3	13	1/1/19 - 12/31/25										119,073,912.00	59,911,956.00	59,161,956.00	\$	883,892.00
Total Amount												125,340,414.00	63,347,094.00	61,993,320.00	\$	1,985,000.00
BP-1 Total	BP1 Submitted											1,220,477.83	610,238.92	610,238.92		
	Remaining BP-1											4,500.17	162,250.09	(157,749.02)	\$	-
BP-2 Total	BP2 Submitted											4,627,396.47	2,568,213.83	2,259,982.69		509,141.16
	Remaining BP-2											414,217.53	94,435.17	119,792.37	\$	21,966.84
BP-3 Total	BP3 Submitted and Estimated											9,126,052.37	4,668,984.06	4,457,068.31	\$	711,915.89
	Remaining BP-3											109,947,859.63	55,242,971.94	54,704,887.69		
	Total Award Submitted											14,973,836.67	7,847,446.80	7,126,389.86		721,056.85
	Total Award Remaining Amount (OVERSPENT)											110,366,577.33	55,499,647.20	54,866,930.14		643,943.15

(b)(4)

From: [Feldman, Karin](#)
To: [Payne, Mark B](#); [Adelman, Julie](#)
Cc: brownbn@id.doe.gov; [Onuschak, Rebecca](#); [Kincaid, Kendall L](#)
Subject: [EXTERNAL] RE: Post-Award Administration, Award Number DE-NE0008928
Date: Thursday, December 17, 2020 12:06:38 PM
Attachments: [image001.png](#)
[Assistance DE-NE0008928 Mod 0007 \(fully executed\).pdf](#)

Thanks, Mark. If needed, a signed copy of the cover page is attached for your records.

Wishing you a safe and relaxing holiday!

Karin



Karin Feldman
Vice President, Program Management Office

email: kfeldman@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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From: paynemb@id.doe.gov <paynemb@id.doe.gov>
Sent: Thursday, December 17, 2020 9:03 AM
To: [Adelman, Julie](mailto:jadelman@nuscalepower.com) <jadelman@nuscalepower.com>
Cc: [Feldman, Karin](mailto:kfeldman@nuscalepower.com) <kfeldman@nuscalepower.com>; brownbn@id.doe.gov; rebecca.onuschak@hq.doe.gov; brownbn@id.doe.gov; kincaikl@id.doe.gov
Subject: Post-Award Administration, Award Number DE-NE0008928

This message is to advise that our office has finalized modification 007 to award DE-NE0008928. You can access the modification documents through the FedConnect portal at www.fedconnect.net.

If you have not yet registered with FedConnect, please do so. Once you have registered under DUNS number 015923328, you will be able to access the award documents in FedConnect. You will need to join the "team" for this award in FedConnect. This will allow you to acknowledge receipt of this award and be notified via email of any future modifications or special messages regarding the award.

Feel free to contact me with any questions regarding the award.

Sincerely,

Mark B Payne
U.S. Department of Energy

Idaho Operations Office
1955 Fremont Ave, MS 1221
Idaho Falls, ID 83415
208 526-3127

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ASSISTANCE AGREEMENT

1. Award No. DE-NE0008928		2. Modification No. 0007	3. Effective Date 01/01/2021	4. CFDA No. 81.121	
5. Awarded To NuScale Power, LLC Attn: KARIN FELDMAN 6650 SW REDWOOD LANE SUITE 210 PORTLAND OR 97224		6. Sponsoring Office Office of Nuclear Energy NE-1 U.S. Department of Energy 1000 Independence Avenue, S.W. Washington DC 20585		7. Period of Performance 02/04/2020 through 12/31/2024	
8. Type of Agreement <input type="checkbox"/> Grant <input checked="" type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other	9. Authority See Text Below		10. Purchase Request or Funding Document No.		
11. Remittance Address NuScale Power, LLC Attn: NUSCALE POWER LLC 6650 SW REDWOOD LANE SUITE 210 PORTLAND OR 972247192		12. Total Amount Govt. Share: \$350,000,000.00 Cost Share : \$350,000,000.00 Total : \$700,000,000.00		13. Funds Obligated This action: \$0.00 Total : \$100,500,000.00	
14. Principal Investigator	15. Program Manager Bradley N. Brown Phone: 208-520-1938		16. Administrator Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415		
17. Submit Payment Requests To VIPERS https://vipers.doe.gov Any questions, please contact by call/email 855-384-7377 or VipersSupport@hq.doe.gov		18. Paying Office VIPERS https://vipers.doe.gov Any questions, please contact by call/email 855-384-7377 or VipersSupport@hq.doe.gov		19. Submit Reports To See Attachment b2	
20. Accounting and Appropriation Data See Schedule					
21. Research Title and/or Description of Project NUSCALE SMALL MODULAR REACTOR (SMR) FIRST-OF-A-KIND (FOAK) NUCLEAR DEMONSTRATION READINESS PROJECT COMPLETION					
For the Recipient			For the United States of America		
22. Signature of Person Authorized to Sign			25. Signature of Grants/Agreements Officer Signature on File		
23. Name and Title Karin Feldman, Vice President		24. Date Signed 12/17/2020	26. Name of Officer Suzette M. Olson		27. Date Signed

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-NE0008928/0007

PAGE OF
2 | 2

NAME OF OFFEROR OR CONTRACTOR
NuScale Power, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>DUNS Number: 015923328</p> <p>Text for block 9 - Authority: 42 U.S.C. 2011 §§ 2011, 2013-2014, 2051-2053, Atomic Energy Act of 1954, as amended by the Department of Energy Organization Act of 1977, as amended; EPAct 2002 & 2005.</p> <p>Block 14: The Principal investigator is Karin Feldman.</p> <p>This amendment approves the continuation application and approves Budget Period 2 from 01/01/2021 through 12/31/2021. Also, Rebecca Onuschak from the NE-5 office is replacing Melissa Bates as the award's Program Manager. Brad Brown from DOE Idaho is replacing Melissa Bates as the Technical Project Officer (TPO) and as the Program Official. A revised Point of Contact Sheet is attached.</p> <p>Attachment b1 - Federal Assistance Budget Sheet Rev.005 is replaced with Attachment b1 - Federal Assistance Budget Sheet Rev.006.</p> <p>Attachment b5 - Project Milestones document is replaced with Attachment b5 - Project Milestone document Rev.001.</p> <p>Per the base award cover page, the awardee has provided the required Project Management Plan and the Data Management Plan. These two documents are also attached to this award amendment as attachments b7 and b8, respectively.</p> <p>All other Terms and Conditions of the award remain unchanged.</p> <p>ASAP: NO: STD IMMEDIATE Extent Competed: NOT COMPETED Davis-Bacon Act: NO PI: Karin Feldman</p>				

To: [Feldman, Karin](#)
Subject: RE: Impacts due to COVID
Date: Thursday, December 9, 2021 11:46:32 AM

Thank you Karin.

For item 1, what was the original due date for this work to be performed by (b)(4) ?
For item 3, what was the original due date for this scope?

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

-----Original Message-----

From: Feldman, Karin [<mailto:kfeldman@nuscalepower.com>]
Sent: Monday, June 22, 2020 7:22 PM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Subject: [EXTERNAL] RE: Impacts due to COVID

Melissa,

Here is the summary of all of the impacts to our subcontracts that we have experienced. Overall, as you know, the funding uncertainties that we experienced did result in overall milestone changes for the program as well.

1. (b)(4)

2. (b)(4)

3. (b)(4)

4. (b)(4)

6. (b)(4)

7. (b)(4)

8. (b)(4)

Let me know if you have any questions.
Karin

Karin Feldman
Vice President, Program Management Office
email: kfeldman@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>

Sent: Monday, June 22, 2020 5:54 AM

To: Feldman, Karin <kfeldman@nuscalepower.com>

Subject: Impacts due to COVID

NuScale Security Warning: There has been a rise in COVID-19 fraudulent email. Please exercise caution.

Good Morning Karin,

I would like to provide my management an updated assessment on the impacts NuScale has felt/plans to feel due to COVID. With Fluor stepping in to help, I wasn't sure if some of the previous reported impacts may now be alleviated. Would it be possible to get an updated status of what parts of the project/vendors will still be experiencing delays or stops in work due to COVID or the fluctuations in the world financial markets (because of COVID).

Thanks,

Melissa

E-mail: Melissa.bates@nuclear.energy.gov

Phone: 301-903-0930

Cell: (b) (6)

To: [Feldman, Karin A](#)
Subject: RE: Questions and Actions
Date: Thursday, December 9, 2021 12:39:17 PM

Thanks Karin.

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930
Cell: (b) (6)

-----Original Message-----

From: Feldman, Karin [<mailto:kfeldman@nuscalepower.com>]
Sent: Monday, March 30, 2020 9:10 AM
To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Subject: [EXTERNAL] RE: Questions and Actions

Melissa - Just talked to John on this. He's communicated with the leadership at Fluor and they are ready to support. I'm going to share your contact information and someone at Fluor will reach out to you to set up a teleconference. If there's someone else they should be coordinating with on schedule, let me know.

Karin Feldman
Vice President, Program Management Office
email: kfeldman@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Monday, March 30, 2020 7:33 AM
To: Feldman, Karin <kfeldman@nuscalepower.com>
Subject: RE: Questions and Actions

Good morning Karin,
I hope you had a good weekend.

I just wanted to check in to see what the latest was on having Fluor respond to the question that was provided, as well as, to have a briefing set up.

Please let me know.

Thanks,
Melissa

E-mail: Melissa.bates@nuclear.energy.gov
Phone: 301-903-0930

Cell: (b) (6)

-----Original Message-----

From: Feldman, Karin [mailto:kfeldman@nuscalscalepower.com]

Sent: Friday, March 27, 2020 2:25 PM

To: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>

Subject: [EXTERNAL] RE: Questions and Actions

Hi Melissa,

NuScale responses are provided below. Please confirm receipt and let me know if you have additional questions. We have reached out to Fluor to assist with the two items that need to come from them (COVID-19 impacts and requested briefing).

1. (b)(4)

2. Is NuScale a small business entity?

No, under the definition put forth by the Small Business Association (SBA) it is NuScale's understanding that we are not considered a small business entity. Although we have less than 500 employees, since greater than 50% of the company is owned by a large company, we do not believe we qualify as a small business entity.

3. Is it likely that NuScale will be able to obtain some support from the stimulus bill?

Based on an initial review of the provisions passed prior to 3/27/2020 (i.e. not including the as yet \$2 T package that has not been signed into law yet), we do not believe we are eligible for any support as of yet as we do not qualify as a "small business." Once we receive the \$2 T stimulus package law we will be able to assess if there are any provisions under that law which might apply to NuScale obtaining financial support.

4. Will NuScale's employees be able to work effectively during the COVID-19 outbreak or will activities slow?

NuScale is well prepared to support the information technology needs of our diverse workforce through these challenging times. Like many modern workplaces, we have customers and business partners around the globe who rely on us to be available and ready to support them regardless of geographical location. NuScale continues to maintain strong program momentum and regular engagement with our stakeholders as we conclude the final stage of the U.S. Nuclear Regulatory Commission review that will lead to the approval of our groundbreaking small modular reactor (SMR) design in September 2020. We can and will continue to meet our business deliverables while still ensuring the health and safety of our employees. COVID-19 has not changed NuScale's ability to conduct business, but rather validated our readiness to implement a carefully thought out remote work plan. We are prepared to support our staff, contractors, suppliers, and business partners using telework for an extended period of time if necessary. Our information technology resources are being delivered, monitored, and protected as appropriate. We are closely monitoring our program for potential impacts, particularly for our vendors that are working on hardware and testing activities, and implementing contingency plans to allow required audit and surveillance activities to be able to progress even with travel restrictions in place. We do not see any potential vendor delays impacting the ability to complete the NRC review as scheduled. Any potential delays we are monitoring (e.g., w(b)(4)) are in the design finalization phase.

5. Is NuScale aware of any negative impacts currently being experienced (b)(4)

(b)(4)

The contents of this message include commercial information that NuScale considers to be and treats as confidential. Disclosure of this information could cause commercial harm to NuScale including to put it at a competitive disadvantage to its competitors. Therefore, I request that this information be treated as exempt from mandatory disclosure pursuant to Exemption 4 of the Freedom of Information Act ("FOIA") (5 U.S.C §552(b)(4) and DOE regulation 10 C.F.R §2004.10(b)(4), as public disclosure would cause substantial harm to NuScale's competitive position.

Karin Feldman
Vice President, Program Management Office
email: kfeldman@nuscalepower.com
web: www.nuscalepower.com
office: (b) (6)

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-----Original Message-----

From: Bates, Melissa (HQ) <melissa.bates@nuclear.energy.gov>
Sent: Friday, March 27, 2020 9:56 AM
To: Feldman, Karin <kfeldman@nuscalepower.com>
Subject: Questions and Actions

Karin,

As discussed, please see the below questions and action. Can you please provide responses to the questions regarding NuScale, as well as advise the best way to proceed to obtain the answer for the question involving Fluor. Also, please indicate NuScale's preference for how the Fluor briefing should be set up.

Thanks,
Melissa

Q&A:

1. (b)(4)
2. Is NuScale a small business entity?
Answer: No, NuScale is not a small business entity.
3. Is it likely that NuScale will be able to obtain some support from the stimulus bill? How about Fluor?
4. Will NuScale's employees be able to work effectively during the COVID-19 outbreak or will activities slow?
5. Is NuScale aware of any negative impacts currently being experienced (b)(4) due to COVID-19?

Actions:

- * Need to set up a briefing with Fluor for them to provide DOE with an assessment of their current situation

E-mail: Melissa.bates@nuclear.energy.gov
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