

Presentation Overview

- Who is Wolfspeed
- Why we went the IPD Route
- How we went about getting alignment within our organization
- How we did it!

Key Takeaways

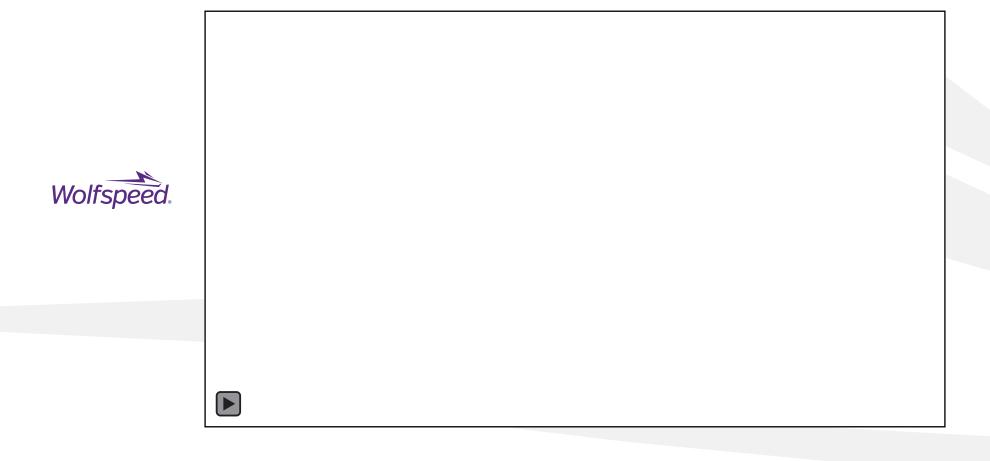
Things you *should* do

- Build Alignment with your business partners before approaching senior management is key
- Start Small and Build
- Educate, Educate, Educate
- Find & work with like-minded partners
- Rely on experts within your team
- Be Good at Failing

Things to *avoid* doing

- Don't underestimate the importance of having robust communication
- Being "too" remote –
 Collaboration is better in person
- Assuming all parties are aligned on the schedule

Silicon Carbide 101



WOLFSPEED AT A GLANCE





~\$13B Market Cap



> 2,100 patents Substantial IP Position



Largest Silicon Carbide Provider



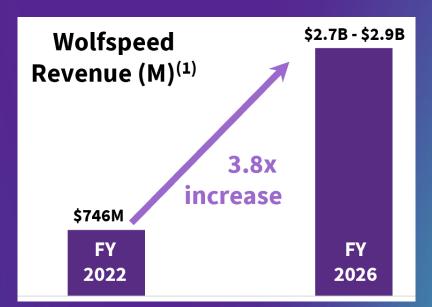
Founded in 1987

888

~4,500 Employees



30+ Years of Leadership



OUR PURPOSE



WE

The people of Wolfspeed push the limits of what's possible.

HARNESS

Through 30+ years of innovation, Wolfspeed has uniquely mastered new ways to use this powerful technology.

THE POWER OF SILICON CARBIDE

Our work expands the boundaries of technology to make devices smaller, lighter, and more powerful.

TO CHANGE THE WORLD FOR THE BETTER.

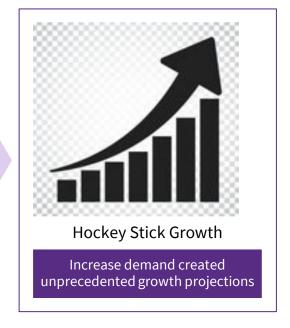
We create the ingredients that inventors, innovators, and doers use to power a cleaner, better future.

WHY THE WORLD NEEDS WOLFSPEED

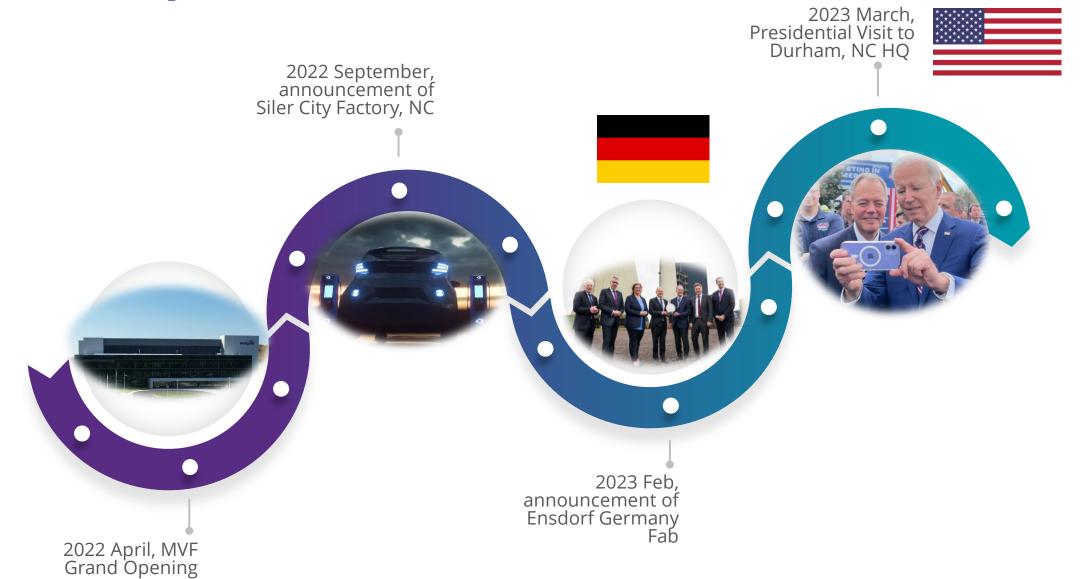








The Jump Start to Our Growth



WALK THROUGH IPD



Project #1 – In the Spirit of IPD: **2020**

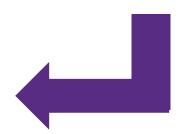




Project #3 – Full IPD/IFOA: 2022



Project #2 – IPD "Lite": **2021 \$ M M M**





LEAN BEGINS WITHIN – COMPANY ALIGNMENT



SVP and CEO addressing the first Big Room

Find the Passion!

Procurement and **Global Facilities** jointly pushed IPD processed into Wolfspeed's construction projects.



Spread the Word

We quickly explained to **leadership and support organizations** how IPD was the path to meet our aggressive timelines.



Change the Company Culture

Culture **celebrates innovation** & pushing the envelope

LEAN CONSTRUCTION IN WOLFSPEED'S EXPANSION





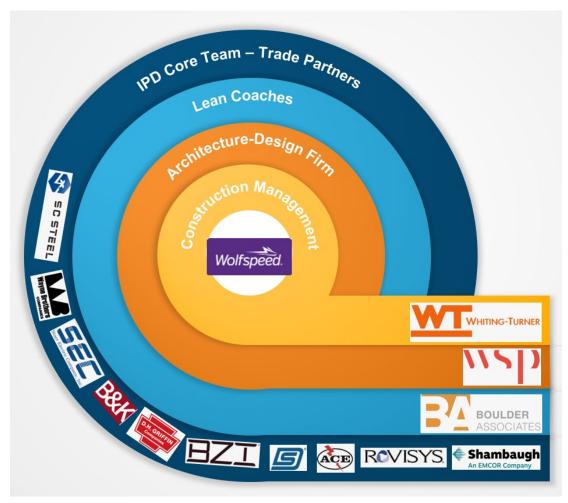


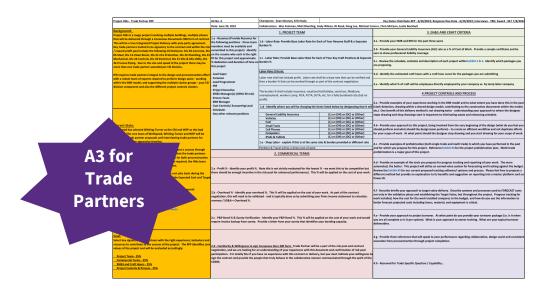




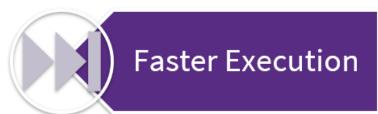
FOCUSING ON THE ADVANTAGES OF PARTNERS TO BUILD THE TEAM

Progression of Partner Selection

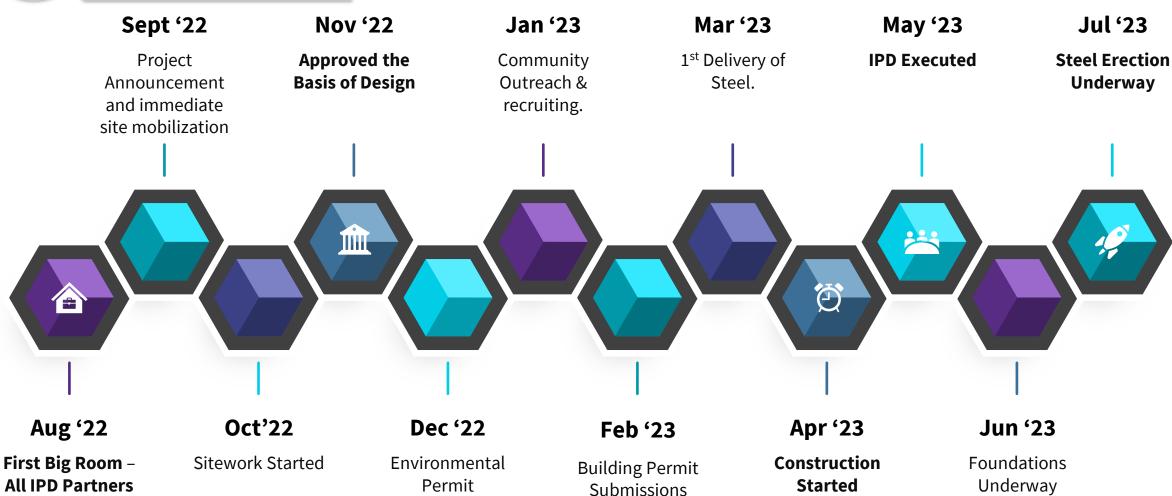




CBA#	901	PROJECT HIBS		ATTRIBUTES OF VORKPACKAGE			
CBA NAME	Trade Partner Evaluation	CBATEMPLATE V3.4		1		2	
DATE	7/6/2022		Weight		•		
				Submitted		Submitted	
FACTORS	CRITERIA	NOTES"					
Proposed Team	The more specific team members identified and their roles are defined, the better	1a. Identify specific team members committed for this project and clarify their roles, 5 = clear roles & enough resource; 1 = unclear and lacking staff.	5	5	25	3	15
Staff Retention	More competitive labor rates for staff are preferred	1b. Labor Rate: Provide Base Labor Rate for Each of Your Resume Staff & a Separate Burden %	3	5	15	5	15
Craft Retention	Competitive labor rates for craft are preferred	1c. Labor Rate: Provide Base Labor Rate for Each of Your Key Craft Positions & Separate Burden %	4	4	16	5	20
Shop Retention	Competitive labor rates for shop are preferred	le. Shop Labor - explain if this is at the same rate & burden provided or different rate	3	N/A	0	N/A	0
Safety	Lower EMR and RIR is preferred	3a. Provide your EMR and RIR for the past three years. Below $0.6 = 5$; $0.6 - 0.69 = 4$; $0.7 - 0.89 = 3$; $0.9 - 1.0 = 2$; $1.01 - 1.1 = 1$. (WB=0.695) RIR: Below $0.7 = 5$; $0.71 - 0.99 = 4$; $1 - 1.5 = 3$; $1.6 - 2 = 2$; $2 + 2$	5	4	20	15	7.5
Insurance	Lower GLI rate is preferred	3b. Provide your General Liability Insurance (GLI) rate as a % of Cost of Work. Below 0.5 = 5; Below 1.0 = 3; Above 1.0 = 1	4	5	20	1	•
V ork Packages	Identify work packages - knowing & right sizing your capabilities is preferred.	3d. Identify for which work packages you are capable.	4	5	20	5	20
On-Site Craft Hours	A flatter on-site craft hour curve is preferred	3d. Identify the estimated craft hours with a craft hour curve for the packages you are submitting	3	5	15		
% of Direct Employees	A higher percentage of direct employees is preferred	3e. Identify what % of craft will be employees directly employed by gour company vs. by temp labor company. 100% - 91% = 5; 81% - 90% = 4; 71 - 80% = 3; 61% - 70% = 2; 50% - 60% = 1; 49% & below = 0	5	5	25	Supplier Selection	
BIM Experience	More specific examples that clearly illustrate better BIM practices is preferred	4a. Specific examples of your experience working in the BIM model (e.g., clash detection, drawing within a shared design model, contributing to the construction documents within the model, etc.)	4	5	20	Shee	
Design Assist Experience	More specific examples that clearly illustrate better design assist practices is preferred	4b. Specific examples that illustrate your design assist experience (e.g., what you s.the design team should perform) to create an efficient workflow for your scope of work. At what point should the designer stop drawing and neur start_drawnin_for_unus_conce_of_work2.	4	5	20	3	



Siler City Factory



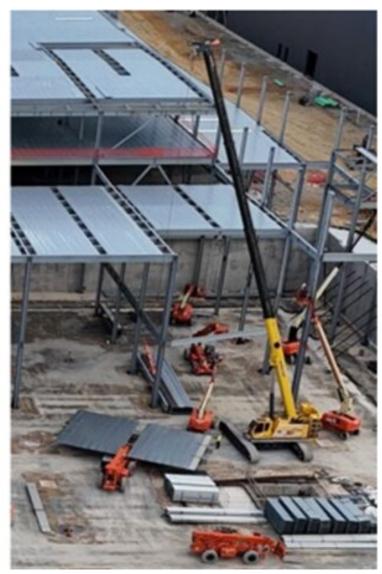
Submissions & Steel Fabrication



Siler City Factory – 9/19/22 - three days after project announcement







Siler City Factory – 9/22/23

PROJECT CONDITIONS OF SATISFACTION – TEAM CHARTER



PROJECT CONDITIONS OF SATISTFACTION

V4.0 SEPTEMBER 2023

Cos MISSION STATEMENT

The Project Conditions of Satisfaction (CoS) define what "success" means for our Team. The CoS provide focus on alignment of interests and priorities for all stakeholders, and guide decision making throughout Design and Construction.

The Key Components to the CoS are:

- Wolfspeed's Business Objectives & Critical Success Factors
- The Project Team's Goals & Desired Behaviors

Wolfspeed

BUSINESS OBJECTIVES

SCOPE - Create a facility that enables Wolfspeed to lead the innovation and commercialization of Silicon Carbide and GaN



SCHEDULE - Begin Installing growers in January 2024 & Testing in May 2024



∰n

CRITICAL TO SUCCESS FACTORS



\$1.97B total project cost (excludes OFCI equipment) does not include FF&E, process equipment, data center equipment)

All risk pool partners are effective in maximizing the



DESIRED BEHAVIORS

Trickle down culture (that is, One Pack, work together, drive together) fosters Integrity & Respect, Ownership & Accountability by and for all project team members

To continue our partnerships after the completion of HIBs



SUSTAINBILITY

Project meets or exceeds Wolfspeed's sustainability goals.

LEED Certified Facility



QUALITY & SAFETY

operate this facility

QUALITY

Create a safe and healthful work environment for the people who design and build this project as well as for the people who will use and

Develop opportunities for STEM education and industry outreach programs for all

COMMUNITY

Create opportunities for local, diverse, small businesses to build their capabilities and market competitiveness.

project partners.

TEAM GOALS



SCF Collaborative Safety Program – Developed, Coordinated,

Design + Manage For Safety – The team will leverage all



We will establish a regular cadence to review and manage Budget, Program, and Scope.

The team will use Target Value Delivery to create transparency in how the budget ties directly to the BOD.

Core Group will establish KPIs for steady profit distribution targets that account for managed risks and assure reasonable and appropriate team member outcomes



Clear definition of scope and deliverables tied to milestones

SIZE

No more than

2.2M SF on an

overall Site

Development of

250 Acres.

Collaborative development and implementation of short-

and it "Starts Day One"

DESIRED BEHAVIORS

ALIGNMENT - The team stays on track with key project milestones to properly support WS's mission, vision, and business objectives / strategy and ensuring not only solid onboarding / but stay-boarding

COMMUNICATION - Consistent communication between leadership and Cluster Groups to foster / cultivate proactive, collaborative problem solving

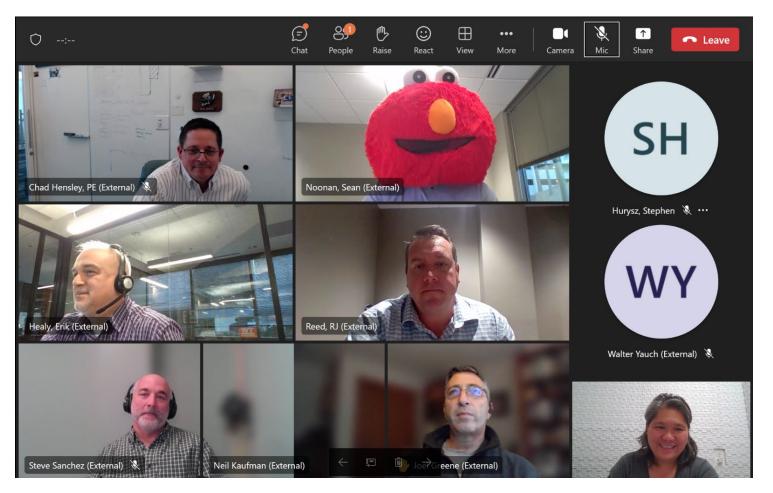
TEAM BUILDING - Quarterly BBQs (or equivalent) to celebrate small wins and overcoming recent challenges

LEARNING / CONTINUOUS IMPROVEMENT - Create a Learning culture that highlights a Lessons Learned program that regularly share recent lessons learned and works on continuous improvement

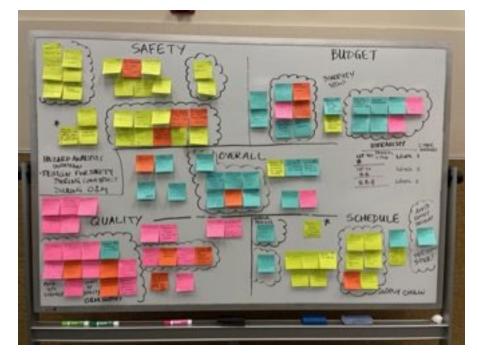
CREATE A GOOD STORY - Through our experience on this project, we have a story that we want to share with others to help our industry deliver projects bette



Reduced Costs & Waste







THE EVOLUTION OF PULL PLANNING FOR EARLY VALIDATION TO TAKT FOR CONSTRUCTION FLOW





Matthew Jogen vPlanner Project Director

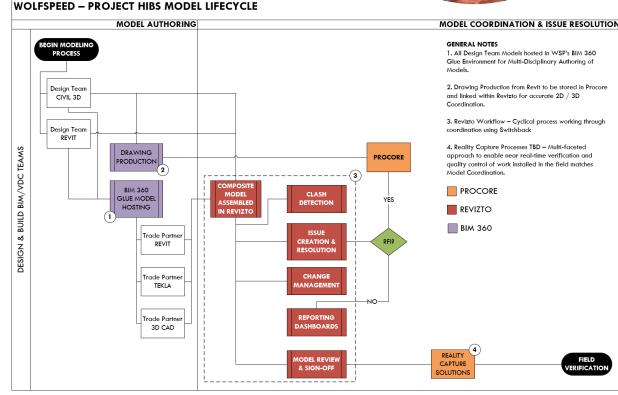
Instrumental in the success of our Design Pull Planning sessions

BIM WORK

- 2D drawings governing, but the model needs to be right and right early – plan the use of the model up front – Single Source of Truth
- Taking the model into constructability reviews and using it for TAKT
- Things not being tagged... Challenges for estimating and scheduling from the model
- PID generation early to guide all other design
- In Valeh we trust!
- Story of going from design model to BIM360 w/TP to Reviewing "shop drawings" in the model – then Revisto for coordination and clash detection and being the final single source of truth

Valeh Nowrouzian Whiting Turner BIM Manager

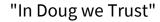




DESIGNING TO WHAT THE FIELD NEEDS

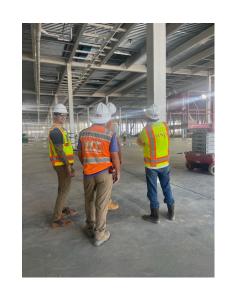
Designers coordinating directly with Field personnel Trusting Field Personnel to drive the job – They are smarter than us

Lead Superintendent there day 1





Doug Lee Whiting Turner General Superintendent



WORKFORCE ENGAGEMENT

Various Wolfspeed Programs

- Apprenticeship NC for DOL and division of NC community college system
- Technician Certification Program at Durham Tech
 - Extending to Central Carolina CC
- Career and College Promise for high school students in NC counties
- Customized Training Programs at Central Carolina CC
- Classroom visits to graduating high school classes in NC
- Community college spring fairs
- Sponsorships, scholarships, apprenticeships, career fairs and more



Six Party Core Group for Workforce

GOALS FOR WORKGROUP

- To Be The Project Of Choice In The Carolinas
- Get The Local And Regional Communities Involved In The Development Of This Site
- Strengthen The Bond Within The Site Through A Culture Of Collaboration, Trust, And Respect For People
- Keep The Workforce At This Site, And Not Tempted Away By Other Projects Or Companies
- Share Workforce Across Different Trades, Helping Each Other To Meet Our Goals
- Retain People Who Can Work At Wolfspeed After The Project Is Completed By Creating A Sense Of Loyalty And Belonging
- Attract New Talent To The Workforce Through The Experiences
 Of Delivering This Amazing Project





Allen Holloman Starr Electric Project Executive

Thank you, Allen!

HEALTH ASSESSMENTS



PROJECT SCF :: TEAM HEALTH ASSESSMENT



From time to time, it is important for us to check the health of our Team to make sure the processes and tools we are using are truly bringing value to the project and aligned with the Conditions of Satisfaction. The following questions will be distributed to the Team and ranked from 1-7, with 7 being most favorable and strongly agreeing with the statement.



BEHAVIORS OF TEAM

MOOD OF TEAM MEMBERS **WORKLOAD**

ACCESS TO THE TEAM

TEAM ACCESS

I have the access I need to solve

problems with other Team members.

ABILITY TO AFFECT CHANGE

I am able to offer suggestions to the

Team that result in positive change.



SCHEDULE AWARENESS

It is clear how Design and Construction work impacts our Key Schedule Milestones (KSM).

PULL PLANNING

We are aligned on what's needed to achieve upcoming schedule

milestones.

BUDGET AWARENESS

MOTIVATION

I am motivated to make this project a I am capable of managing my current success.

MUTUAL RESPECT

The Team maintains professionalism and addresses issues and processes, not people.

CULTURE

We work in an effective, collaborative environment.

TRUST

When I express my concerns, they are considered respectfully.

RESOURCES

workload.

We have the appropriate resources so I can successfully deliver my project responsibilities.

PRIORITIES

The priorities of the project are clear.

TRANSPARENCY

The team shares information effectively.

I understand the Current Working Estimate (CWE) and how it impacts profitability.

OPEN FEEDBACK

In addition to the questions above, we would also like to solicit open feedback from the team in the form of the following questions:

- Start / Stop / Keep What should we Start Doing? What should we Stop Doing? What should we Keep Doing?
- Self Reflection How do you feel you can provide additional Value to the Team? What areas do you need additional support? Anything else you want to share?

Link to MS Form Survey: https://forms.office.com/r/mhkBdUtgED



Whiting Turner IPD Manager

A True Leader in LEAN

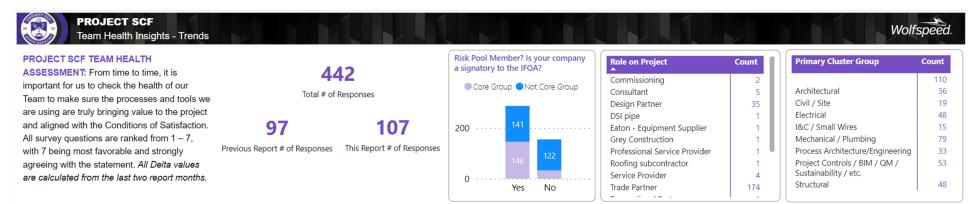
HEALTH ASSESSMENTS

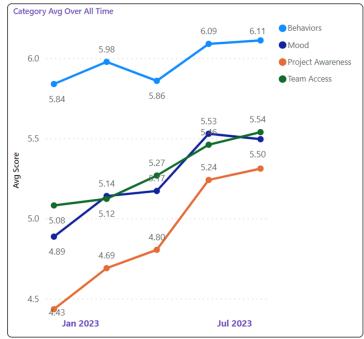


PROJECT SCF :: TEAM HEALTH ASSESSMENT



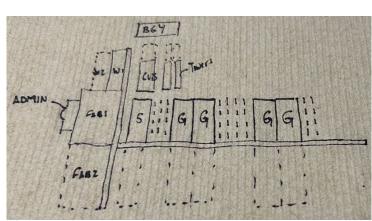
AUGUST 2023 OVERALL RESULTS



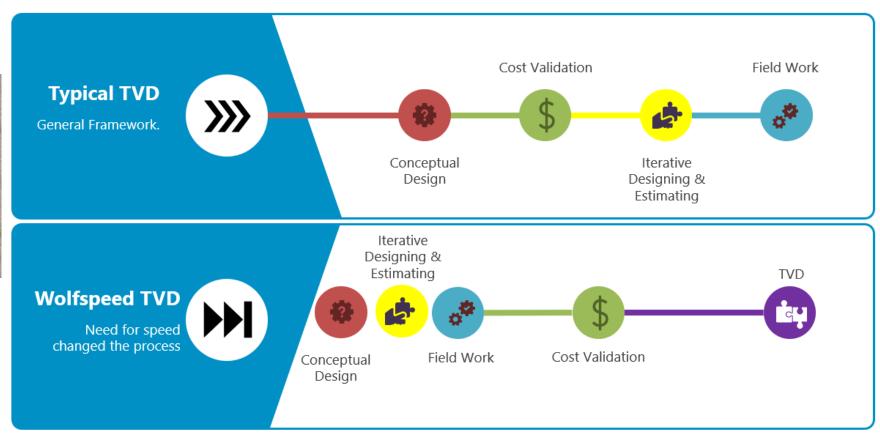


Category	Attribute	Sub-Text	Avg Previous Report	Avg Most Recent Report	Delta	Delta %
Behaviors	Culture	We work in an effective, collaborative environment.	5.79	5.85	0.057	0.98%
Behaviors	Trust	When I express my concerns, they are considered respectfully.	5.98	5.94	-0.035	-0.59%
Behaviors	Mutual Respect	The Team maintains professionalism and addresses issues and processes, not people.	6.15	6.16	0.004	0.07%
Behaviors	Motivation	I am motivated to make this project a success.	6.43	6.50	0.062	0.97%
Mood	Priorities	The priorities of the project are clear.	5.30	5.10	-0.196	-3.70%
Mood	Resources	We have the appropriate resources so I can successfully deliver my project responsibilities.	5.52	5.59	0.073	1.33%
Mood	Workload	I am capable of managing my current workload.	5.77	5.79	0.021	0.37%
Project Awareness	Planning Process	We are aligned on what's needed to achieve upcoming schedule milestones.	5.18	5.11	-0.063	-1.22%
Project Awareness	Schedule Awareness	It is clear how Design and Construction work impacts our Key Schedule Milestones.	5.27	5.15	-0.119	-2.25%
Project Awareness	Budget Awareness	I understand the Current Working Estimate and how it impacts profitability.	5.28	5.67	0.395	7.47%
Team Access	Transparency	The team shares information effectively.	5.13	5.12	-0.013	-0.24%
Team Access	Ability to Effect Change	I am able to offer suggestions to the Team that result in positive change.	5.49	5.65	0.159	2.90%
Team Access	Team Access	I have the access I need to solve problems with other Team members.	5.75	5.84	0.089	1.54%

WE WERE LATE IN ESTABLISHING ALLOWABLE COST AND TVD, BUT WE REALLY WEREN'T...WE JUST MOVED SO FAST



First concept: Winter of '21-22.

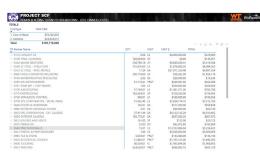


Inventing – Programming – Designing – Building – ALL AT THE SAME TIME

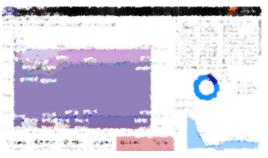
POWER BI



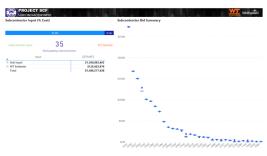




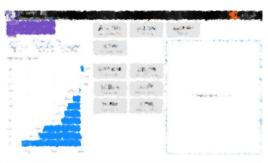






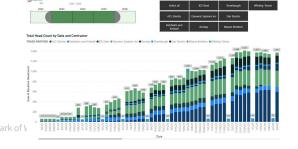




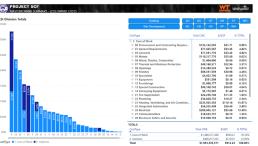












Open 80 Status Open 80 Status Open 80 Open 80 Open 90		and Due S3 1 Due Status		Final Due Date 5/30/2022 8/15/2023		Responsible Count Contractor		Type		
				Ball In Court	AAR ACT BANK BONG DHG	AAR Roofing ACE Decric Batchelor & Kimball Border State Clectric DH Gotto		19 Document 5 Square 1 for 19 Commissioning) 29 Other 1 Plans 50 Product Information		
	514			O Litgest Due		DSI		73	Product Manu	ad .
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	602 Total Submittals		514		All All		V 500			9
Open Submit	Hals Log									
	Spec Section	Title			Responsible Contractor	Rall in Court		Status	Final Due Date	Due Status
23 3000-32	Cast to Place Concrete		thop Drawing - WD Drain Pipe Stench		Wayne trothers	Dodd, Kelly (# Ramins, Mark	(Page Think)	Open	07/12/0023	Little
23 3000-53	Cast in Place Concrete	CL 281	CL 28 Micropile Design Calsculations		Wayne Bothers	Brown, Cynthia (MSP) Wilde, Mart (MSP) Wilkinson, Bratt (MSP)		Open	87)13,0323	Late
05 1300-101	Structural Steel Framing	For Re	For Record INF Liebberr LTR 1220 Crane Han		SC Steel	Burton, Brenda (SC Steel)		Open	01/07/2028	Late
05 1200-105	Structural Steel Framing	Field C			SC Steel	Dodd, Kelly (MSP)		Open	00/24/2023	Litgett Due
05 1200-107	Structural Steel Framing		Revised Field Erection-CS Building		SC Steel	Srown, Cynthia (WSP) Deold, Kelly (WSP)		Open	07/26/2025	Due
05 1200 100	Structural Steel framing		Field CE and GF BIP Tabrication Drawings		SC Steel	Drown, Cynthia (WSP) Dodd, Kelly (WSP)		Open	01/01/0353	Due
05 1200-111	Structural Steel Framing		Approval BO IMP Struct Support		SC Steel		Burton, Brenda (SC Steel)		07)24/2023	Litgent Due
05 1200-112	Structural Steel Framing	Field 0	Field GF, GFE Med Span		SC Steel	OHalforan, Jo	O'Halloran, John (Whiting-Turner)		87/20/2023	Organt Due
05 1200-114	Structural Steel Framing		EO Elevated Walkway Field Work		SC Steel	Ohalieran, Jo	Challoran, John (Sthiting-Tuner)		07/24/2023	Digest Due
05 1200-115	Structural Steel Framing		Field Fix Plate Washers for Column Base Plate Fix for CB		SC Steel		O'Halloran, John (Whiting-Turner)		07)51/0023	Due
05 1200-116	Structural Steel Framing	Revised CB E. W Perimeter Slev Plan			SC Steel		Halloran, John (Whiting-Turner)		00/01/2023	Due
	Structural Steel Framing	p For Record Tadano GC1600 Crane Plan			SC Sheet	Burton, Brenda (SC Steet)			06/25/2023	Lifte



HOW DID WE GO THROUGH ESTABLISHING THE IFOA

Make it Agreeable Same Room This is a joint venture, Make sure that put all the and we should negotiate lawyers in the same room for what is best for the to kick off the review. project not the individual. Bet on Yourself, not against. Incentivize the Team Solidify the Approach This process is full of Self insuring through the compromises. Be fair and Work closely with your project policy base don use the profit sharing to legal team – don't leave the current market. incentivize the team... the IPD up to them!! Know When to Let Them Go Start with Solid Partners Our RFP approach was It takes hard discussions formed around IPD and

to make hard decisions.

Sometimes you must

remove the obstacle.



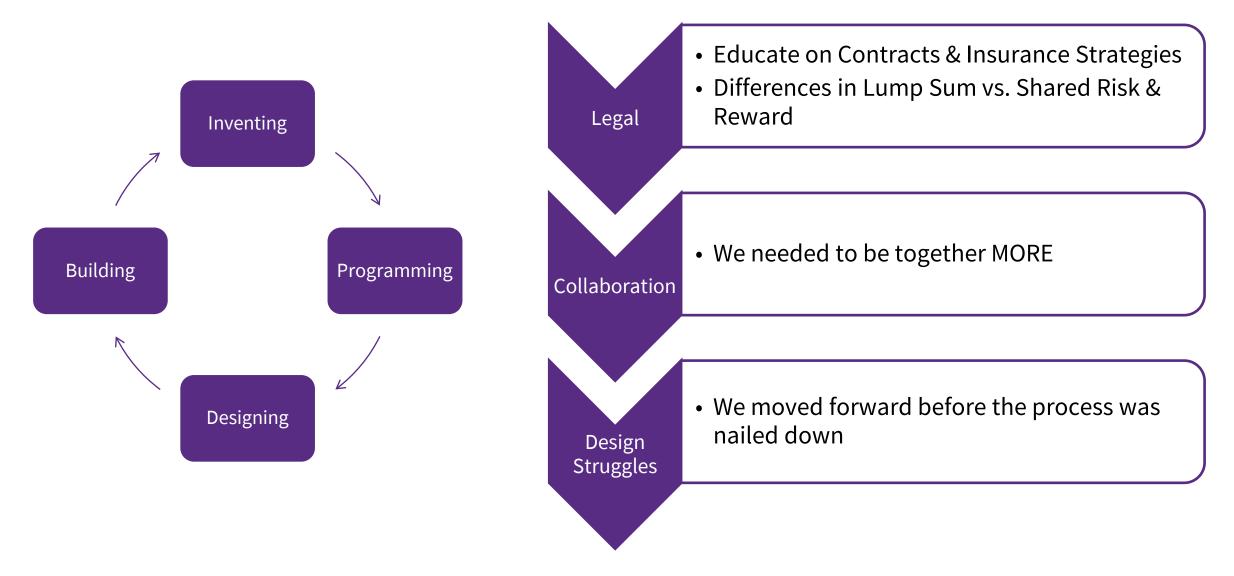
Thank You: David Stern, WSP. A wealth of knowledge from previous IPD agreements.

we selected our core

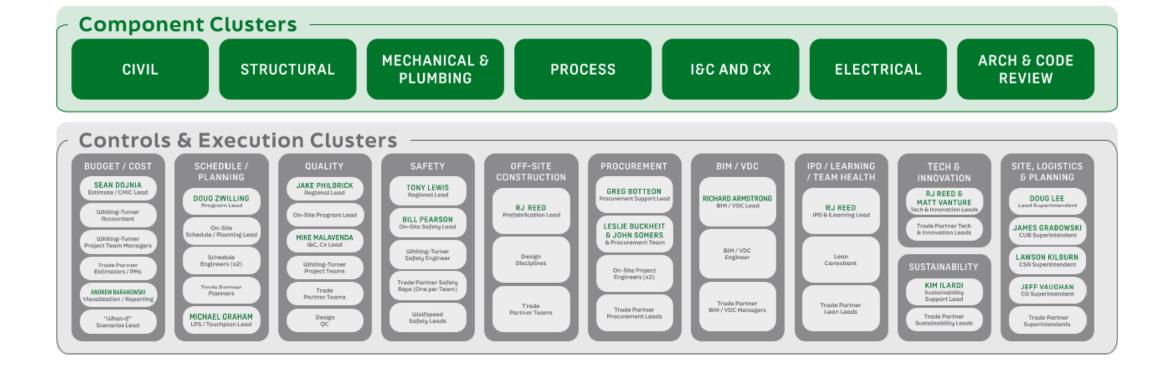
members based on

previous experience.

Lessons Learned - Be good at failing!



NEED FOR A COMMUNICATIONS TEAM – LESSONS LEARNED



COLLABORATION

Collaboration / Working Together

Keep the collaboration

Keep boosting morale and positive attitudes. I can see the fatigue of the team and it helps when their hard work is recognized.

"Keep allowing people to voice their concerns.

demonstrating a great cando attitude under very difficult circumstances

Working together to overcome typical issues.

Communicating and doing our best to have some level of fun and enjoy our

Trying to get better.

Keep collaboration going, and increase the overlap.

Working well together, building the team mentality, offering to help, problem-solving- using our separate strengths to the team's advantage.

work.

We are doing all we can with the lack of information and constant changes.

Keep bringing humor to the everyday Project SCF battle

Communication, Whiting and Turner has always been well versed in communicating their expectations.

Continue improving our communications. A lot of details are not passed to all team members.

Keep doing what we are doing.

Keep moving forward.

Prioritizing our efforts to meet the common goal

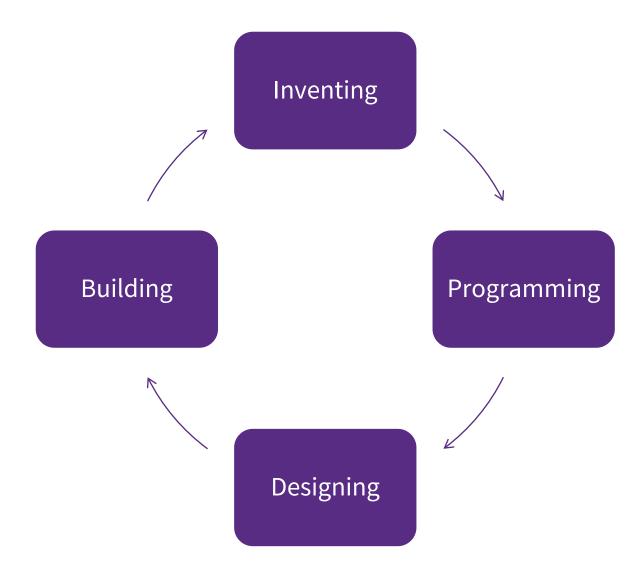
We should keep working together to complete the job

2023 Hibs-SCF In-Person Meeting Schedule Raleigh-Durham-Siler City, NC

	Sunday Monday		Tuesday Wednesday		Thursday	Friday	Saturday
SEP	3	LABOR DAY	F2F Design Blitz	F2F Design Blitz	7 F2F Design Blitz	8	9
	tri	11	F2F Design Blitz	SEPTEMBER Core Group	BIG ROOM In Person	15	1.6
	17	18	F2F Design Blitz	20 F 2F Design Blitz	21 F 2F Design Blitz	22	23
	74	95	76	77	78 Big Room virtual	79	ate.
DCT	ı	2	F2F	F2F	S Risk Workshop	6	1
	â	9	tú	11	12 Big Room virtual	13	14
	15	16	F2F placeholder	F2F placeholder	OCTOBER Core Group	20	21
	77	23 Quiet week	24 Quiet week	25 Quiet week	26 Quiet week	27 Quiet week	28
	29	30	31	ı	2 Big Room virtual	3	4
631	5	NCDOL Signing Ceremony	7 agenda finalized for TBD F2F	8	9	1û	11
	12	13	F2F placeholder	F2F placeholder	Nov Core Group & Top Out Ceremony	17	18
	19	Quiet week	Quiet week	22 Quiet week	23 THANKSGIVING	24 Quiet week	25
0	26	27	Holiday Dinner Angus Barn	29	30 Big Room virtual	1	2

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DESIGN CHALLENGES

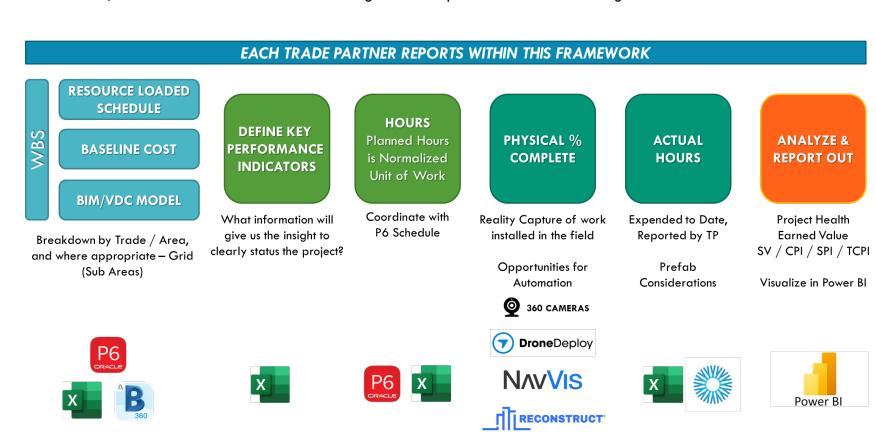


EARNED VALUE LESSON LEARNED

- It always sounds great, but its hard and the skill set is not out in the market the way it needs to be
- Anyone that has done this practically knows the challenges and getting everyone on the same sheet of music
- 360 cam versus model for qty's
- Dedicated people and starting the conversations earlier
- One of our partners with the most IPD and EV experience has stepped up and crated an easy process for the rest of the team to follow

GOAL

Develop a Strategy for monitoring our Team's productivity by comparing the targeted plan to actual execution in the field, so the Team has a clear understanding of the Project status and forecasting.

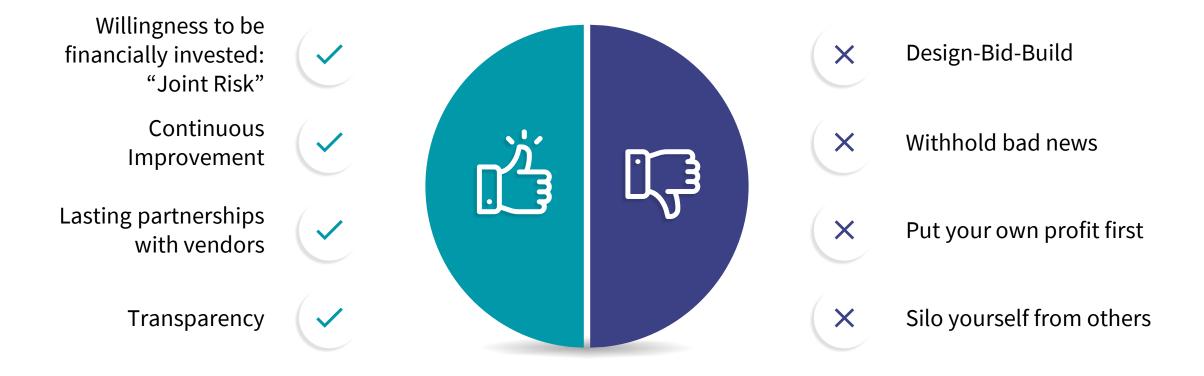


A GC'S PERSPECTIVE ON THE WOLFSPEED JOURNEY



We want our partners to take this journey with us!

DO'S DON'TS



Key Takeaways

Things you *should* do

- Build Alignment with your business partners before approaching senior management is key
- Start Small and Build
- Educate, Educate, Educate
- Find & work with like-minded partners
- Rely on experts within your team
- Be Good at Failing

Things to *avoid* doing

- Don't underestimate the importance of having robust communication
- Being "too" remote –
 Collaboration is better in person
- Assuming all parties are aligned on the schedule

THANK YOU





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