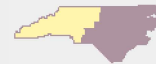


D	Project Name	DURHAM BROWNFIELD ADENO-ASSOCIATED VIRUS (AAV) GENE THERAPY	PEC Activity Diagram
	Industry Code	13 Pharmaceutical & Biotech	Project Type Brownfield
	TIV (USD)	125,000,000	
	SIC Code	2836 Biological Products, Except Diagnostic Substances	Sector Final Formulation (Oral, Solid, Parenteral, Topical, etc.)
	SIC Product	2836*0035 Cellular and Gene Therapy Products	
	Status	Active	Last Update 05-Jan-2022
Environmental	Air (A) Water (W)	Construction Labor Preference Union, Non-Union	Operations Labor Preference Union, Non-Union
Square Footage	Existing Sq. Ft. 174,000 Sq. Ft.		
	Retrofitted/Renovated Sq. Ft. 174,000 Sq. Ft.		



Plant Owner	Jaguar Gene Therapy LLC	Plant Parent	Jaguar Gene Therapy LLC
Plant Name	Durham Adeno-Associated Virus (AAV) Gene Therapy	Unit Name	
Plant ID	3482376		
Location	14 T.W. Alexander Drive	Phone	+1 919 465 6400
City/State	Durham, North Carolina 27703 U.S.A.	Zone/County	NC*02, Durham

Project Responsibility	Project Company	Project Contact
Project Director	Jaguar Gene Therapy LLC 2203 MacKenana Drive Cary, North Carolina 27511 U.S.A.	Gretchen Smith Senior Director [Tel.] +1 919 465 6400 [E-Mail] gsmith@jaguargenetherapy.com
Project Manager	Jaguar Gene Therapy LLC 2203 MacKenana Drive Cary, North Carolina 27511 U.S.A.	Bryan Grice VP of Engineering [Tel.] +1 919 465 6400 [E-Mail] bgrice@jaguargenetherapy.com ; [LinkedIn] bryan-grice-39a34644
A&E	Wood PLC 751 Arbor Way Suite 180 Blue Bell, Pennsylvania 19422 U.S.A.	Kevin Grady Senior Project Manager [Tel.] +1 610 828 8100 [E-Mail] kevin.grady2@woodplc.com ; [LinkedIn] kevin-grady-9289b314
G/C	DPR Construction Incorporated 2000 Aerial Center Parkway, Suite 118 Morrisville, North Carolina 27560 U.S.A.	Jay Morehead Project Manager [Tel.] +1 919 337 9400 [E-Mail] jaymo@dpr.com
G/C	DPR Construction 1815 South Tyron Street Charlotte, North Carolina 28203 U.S.A.	Jason Jinorio Project Manager [Tel.] +1 704 413 3890
Contractor	L.L. Vann Electric Incorporated 833 Purser Drive Raleigh, North Carolina 27603 U.S.A.	Derek Gilmore Vice President [Tel.] +1 919 772 2567 [LinkedIn] derek-gilmore-pmp-1273581b

PEC@ Timing	E2	PEC@ Activity	Preliminary Engineering
Project Probability	High (81-99%)		
Scope	Jaguar Gene Therapy LLC with Wood Plc, DPR Construction, and L.L. Vann Electric Incorporated (Shell Only) performs Preliminary Engineering for Brownfield Adeno-Associated Virus (AAV) Gene Therapy Plant. DETAILS: Renovate and fit-up approximately 174,000 sqft of space and equip for manufacturing of clinical and commercial quantities of novel adeno-associated virus (AAV)-based gene therapies. REQUIRES: Building Modifications, Temperature and Humidity Controls, Fire and Security System, Voice/Data/Wireless System, Industrial Gas Supply and Storage, Air/Gas Vacuum System, Building Management Systems (BMS), Single-Use Bioreactors, Laboratory Stations, Analytical Equipment, Data Recorders, Purification Equipment, Cell Culture Tanks, Clarification Equipment, Diafiltration/Ultrafiltration Equipment, Chillers, Cooling Towers, Water-For-Injection Loops, Heat Exchangers, Checkweighers, Cryogenic Equipment, Aseptic Packaging Equipment, Compressors (Air), Water Baths, Cell Expansion Equipment, Cleanrooms (ISO 7-8/Class 10,000-100,000), Controls (PLC), Vial Washers, Laboratory Information Management Systems (LIMS), Aseptic Fill/Finish Equipment, NGF Boilers, Clean Steam Generators, High Purity Piping, Water Purification System, Emergency Generators, Electrical Distribution, Pumps, Motors, Valves. ENVIRONMENTAL: (A) HEPA Filtration Equipment, Fume Hoods, Dust Collectors; (W) Pre-Wastewater Treatment System, Stormwater Drainage System.		
Schedule	Jaguar Gene Therapy LLC with Wood Plc, DPR Construction, and L.L. Vann Electric Incorporated (Shell Only) continues with Preliminary Engineering through 2Q22 (May). Upon final approvals, Jaguar with project team releases any remaining Equipment RFQs and Subcontractor Bid Documents 1Q22 (Mar)-3Q22 (Jul). Tentative Construction Kick-Off 2Q22 (May). Project Completion 4Q23 (Dec).		
Details	Jan-2022 Project in Preliminary Engineering		
Project Milestones	AFE 202111	Sub Bid Doc 202203	Completion 31-Dec-2023
	Equip RFQ 202203	Kick-Off 202205	Precision YEAR
			Duration 20 Months
			Kickoff Slippage 5 Months

Engineering Contracting	Electrical	Environmental	HVAC	Instrumentation	Mechanical
Project Key Needs			Control Room	Process Equip	Heat Transfer
	Instrumentation	Electrical	Mechanical	HVAC	Storage
	Piping/Fittings	Insulation/Coatings	Environmental	Utilities	Valves
	Communications		Batch Process	Packaging	Pumps
	Material Handling				
Matter Phase		Liquid		Solid	
Energy		Boiler		Generator	
Buy					
Sell					
Project Fuel Type	Natural Gas				

Plant Standard Contacts			
Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Gretchen Smith	[Phn.] +1 919 465 6400	Oct-2021
Senior Director	gsmith@jaguargenetherapy.com	No	
Engineering Manager	Bryan Grice	[Phn.] +1 919 465 6400 / [Alt.] +1 815 978 3891	Nov-2021
VP of Engineering	bgrice@jaguargenetherapy.com	Yes	bryan-grice-39a34644

Historical Reports			
Project Name	Report Date	TIV	Phase
DURHAM BROWNFIELD ADENO-ASSOCIATED VIRUS (AAV) GENE THERAPY PLANT	28-Oct-2021	125,000,000 USD	Preliminary Design (P1 - 07)
DURHAM BROWNFIELD ADENO-ASSOCIATED VIRUS (AAV) GENE THERAPY PLANT	18-Nov-2021	125,000,000 USD	Detailed Design (P1 - 09)
DURHAM BROWNFIELD ADENO-ASSOCIATED VIRUS (AAV) GENE THERAPY PLANT	05-Jan-2022	125,000,000 USD	Preliminary Engineering (E2 - 22)

© 2022 ALL RIGHTS RESERVED. Industrial Info Resources, Inc. - Sugar Land, TX - 800-762-3361