

*Any data highlighted in red below is data that has been added or updated in the last release of the project

Capital PEC Report

Project ID: 300732188



[PEC Activity Diagram](#)

Project Name CARLSBAD SINGLE-USE CELLULAR AND GENE THERAPY (CGT) CMO
Industry Code 13 Pharmaceutical & Biotech **Project Type** Plant Expansion
TIV (USD) 85,000,000
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** 11-Apr-2022 **Initial Release** 08-Oct-2021
Environmental Air (A) Water (W) **Construction Labor Preference** Unconfirmed
Operations Labor Preference Union



Square Footage Existing Sq. Ft. 150,000 Sq. Ft.

Plant Owner MilliporeSigma **Plant Parent** Merck KGaA
Plant Name Carlsbad Single-use Cellular and Gene Therapy (CGT) **Unit Name**
Plant ID 3411110
Location 2827 Whiptail Loop W **Phone** +1 760 710 6100
City/State Carlsbad, California 92010 U.S.A. **Zone/County** CA*10, San Diego

Project Responsibility Project Company

Project Contact

Project Director MilliporeSigma 6211 El Camino Real Carlsbad, California 92009 U.S.A.	Erik Amundrud Manufacturing Manager [Tel.] +1 760 710 6100 [E-Mail] erik.amundrud@milliporesigma.com ; [LinkedIn] submission1
Project Manager MilliporeSigma 6211 El Camino Real Carlsbad, California 92009 U.S.A.	Samantha Chua Head of EHS, Facilities Engineering & Maintenance [Tel.] +1 760 918 0007 [E-Mail] samantha.chua@milliporesigma.com ; [LinkedIn] samanthayaussychua
A&E CE&IC Incorporated Two Terri Lane Suite 125 Burlington, New Jersey 08016 U.S.A.	Robert Lennard Project Manager [Tel.] +1 609 387 1700 (Mobile) [E-Mail] rlennard@ceicinc.com

PEC® Timing E2

PEC® Activity Preliminary Engineering

Project Probability High (81-99%)

Scope MilliporeSigma with CE&IC performs Preliminary Engineering for Single-Use Cellular and Gene Therapy (CGT) CMO Plant Addition Phase II. DETAILS: Modify and equip 150,000 sqft existing spec building to double existing clinical production capacity of Cell and Gene Therapies by adding 6 new production suites. REQUIRES: Building Modifications, Building Automation Systems (BAS), Temperature and Humidity Controls, Fire and Security System, pH Meters, Checkweighers, Compressors (Air), Single-Use/Disposable Mobious 1000l Bioreactors, Voice/Data/Wireless System, Air/Gas Vacuum System, Industrial Gas Supply and Storage, Water-For-Injection (WFI) System, Bar Coding and Labeling Equipment, Refrigeration, Modular Cleanroom Areas (ISO 7/Class 10,000), Single Use Mixers, Clean Steam Generators, Freezers, Automatic Thawers, Terminal Sterilization Equipment, Isolators, Incubators, Centrifuges, Sterile Holding Bag Buffers, Laboratory Stations, Analytical Equipment, Data Recorders, Chromatography Equipment, Holding Vessels, Culture Media Vessels, Industrial Gas Supply and Storage, Conveyors (Belts), Sterile Packaging Equipment, Allen Bradley Controls (PLC), Water Purification System, Emergency Generator. ENVIRONMENTAL: (A) HEPA Filtration System, Fume Hoods, Dust Collectors; (W) Pre-Wastewater Treatment System

Schedule MilliporeSigma with CE&IC continues with Preliminary Engineering through 2Q22 (Jun). MilliporeSigma and CE&IC select and award G/C and releases any remaining Equipment RFQs plus Subcontractor Bid Documents 1Q22 (Mar). Tentative Construction Kick-Off 2Q22 (Jun).

Details Jan-2022 Project In Preliminary Engineering

Project Milestones	AFE 202111	Sub Bid Doc 202203	Completion 31-Dec-2023	Precision MONTH
	Equip RFQ 202203	Kick-Off 202206	Kickoff Slippage 1 Months	Duration 19 Months

Bidding Companies - Listing may be partial and subject to change

Company Name	Project Responsibility
BNBuilders Incorporated	G/C
DPR Construction Incorporated	G/C
Jacobs Engineering Group Incorporated	G/C

Engineering Contracting	Electrical	Environmental	HVAC	Instrumentation	Mechanical	Structural
Project Key Needs			Control Room	Process Equip	Heat Transfer	
	Instrumentation	Electrical	Mechanical	HVAC	Storage	
	Piping/Fittings	Insulation/Coatings	Environmental	Utilities	Valves	
	Communications		Batch Process			
						Material Handling

Matter Phase	Liquid	Solid
Energy		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	Erik Amundrud	[Phn.] +1 760 710 6100	Jan-2022
Manufacturing Manager	erik.amundrud@milliporesigma.com	Yes	submission1
Maintenance Manager	Charles Grant	[Phn.] +1 760 710 6100	Nov-2021
Maintenance Supervisor	charles.grant@milliporesigma.com	Yes	charles-grant-7a2822149
Purchasing Manager	Erik Amundrud	[Phn.] +1 760 710 6100	Jan-2022
Manufacturing Manager	erik.amundrud@milliporesigma.com	Yes	submission1
Engineering Manager	Judy Leon	[Phn.] +1 760 710 6100	Nov-2021
Project Manager	judy.leon@milliporesigma.com	Yes	judy-leon-pmp-52a4a723
Environmental Manager	Samantha Chua	[Phn.] +1 760 918 0007	Jan-2022
Head of EHS, Facilities Engineering & Maintenance	samantha.chua@milliporesigma.com	Yes	samanthayaussychua
Safety Manager	Samantha Chua	[Phn.] +1 760 918 0007	Jan-2022
Head of EHS, Facilities Engineering & Maintenance	samantha.chua@milliporesigma.com	Yes	samanthayaussychua
Utilities Manager	Jason Rodriguez	[Phn.] +1 760 710 6100	Nov-2021
Manufacturing Supervisor	jason.rodriguez@milliporesigma.com	Yes	jason-rodriguez-229745ba
Human Resource Manager	Susan Oleson	[Phn.] +1 760 918 0007	Nov-2021
Market HR Business Partner	susan.oleson@milliporesigma.com	Yes	susanoleson

Historical Reports			
Project Name	Report Date	TIV	Phase
CARLSBAD SINGLE-USE CELLULAR AND GENE THERAPY (CGT) CMO PLANT ADDITION PHASE II	08-Oct-2021	85,000,000 USD	Preliminary Design (P1 - 07)
CARLSBAD SINGLE-USE CELLULAR AND GENE THERAPY (CGT) CMO PLANT ADDITION PHASE II	29-Oct-2021	95,000,000 USD	Preliminary Design (P1 - 07)
CARLSBAD SINGLE-USE CELLULAR AND GENE THERAPY (CGT) CMO PLANT ADDITION PHASE II	29-Oct-2021	85,000,000 USD	Preliminary Design (P1 - 07)
CARLSBAD SINGLE-USE CELLULAR AND GENE THERAPY (CGT) CMO PLANT ADDITION PHASE II	05-Jan-2022	85,000,000 USD	Preliminary Engineering (E2)
CARLSBAD SINGLE-USE CELLULAR AND GENE THERAPY (CGT) CMO PLANT ADDITION PHASE II	11-Apr-2022	85,000,000 USD	Preliminary Engineering (E2)