DOCKETED	
Docket Number:	01-AFC-06C
Project Title:	Magnolia Power Project-Compliance
TN #:	266250
Document Title:	Record of Conversation for Transmission System Engineering Technical Area
Description:	Record of Conversation Documenting Transmission System Egineering Staff's Questions for the Magnolia Power Plant Petition to Amend TN 260806
Filer:	Ashley Gutierrez
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	10/1/2025 9:37:20 AM
Docketed Date:	10/1/2025

Siting, Transmission and Environmental Protection Division

FILE: n/a

PROJECT TITLE: Magnolia Power Plant | **Docket:** 01-AFC-06C

TECHNICAL AREA(s): Transmission System Engineering

☐ Telephone	☒ Email	☐ Meeting Location:	
NAME(s): Joseph Douglas, CPM		**DATE:** 6/19/24	**TIME:** 7:35 am
WITH: Frank Messineo, Power Production Manager for City of Burbank Water and Power			
SUBJECT: Responses to Transmission System Engineering Staff Data Requests			

COMMENTS: CEC engineering staff requested clarification on the MW output of the plant after installation of the efficiency upgrades. See email attachment.

From: Messineo, Frank
To: Douglas, Joseph@Energy; Reyes, Claudia
Subject: RE: Burbank capacity?
Attachments: image001.png

Joseph,

Magnolia can currently generate 247.4 MW combined cycle at approximately 70 degrees F. Under the same 70 degree F conditions with duct firing, it can do approximately 292.4 MW. On a warmer day of 85 degrees for example, the maximum output is closer to 282 MW with duct firing. When over 100 degrees F, we see maximum output with duct firing near 260 MW. Duct firing provides an additional 45 MW over the combined cycle alone however use of duct firing is limited by the air district to below approximately 1,000 hours per year and duct firing operates with a higher heat rate. The 323 MW mentioned below was estimated from calculations at between 20 and 30 degrees F with duct firing. Higher ambient temperatures decrease output performance with our current configuration and is common among most combustion turbines. Unfortunately, we need the energy when its hot and we never see temperatures of 20 degrees F in Burbank.

With the proposed upgrades, combined cycle without duct firing will be increased approximately 50 MW and will not be impacted nearly as much by ambient conditions. We expect the combined cycle alone to be around 300 MW even on hot days. With duct firing, we may be above 320 MW under certain conditions however, we did not want to over promise and know we can certainly do 320 MW with all the other potential constraints. Time was limited before the grant applications were due and we did not have all the details which would normally take a few years to determine.

Please let me know if there is any remaining questions.

Thanks,

FRANK MESSINEO
Power Production Manager
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BurbankWaterAndPower.com
Always There for You!

From: Douglas, Joseph@Energy <Joseph.Douglas@energy.ca.gov>
Sent: Wednesday, June 19, 2024 7:04 AM
To: Reyes, Claudia <CSReyes@burbankca.gov>; Messineo, Frank <FMessineo@burbankca.gov>
Subject: Fw: Burbank capacity?

Hi Claudia and Frank,

Please see the staff comment below regarding the DEBA funding. Please provide some clarity if you can. Thnaks.

I see from https://www.energy.ca.gov/powerplant/combined-cycle/magnolia-power-project that Magnolia is a 323 MW ng cc power plant.

However, in its DEBA Bulk Grid application, they said Magnolia has a current output capacity of 247.4 MW at full load (which is 75.6 MW less than 323 MW).

The two Burbank DEBA projects propose to add 53.9 MW capacity by upgrades (advanced compressor system and gas path upgrade) that will increase efficiency and improve hot-day performance. The proposal states that no modification to the interconnection point will be required.

JD

cc:	Hurshbir Shahi, CEC Compliance Monitoring and Enforcement Unit Supervisor Brett Fooks, Safety & Reliability Branch Manager	**Signed:** _____|s|_____ **Name**: Joe Douglas, Compliance Project Mgr.