

March 30, 2022

Melissa Schaeffer  
Senior Vice President and Chief Financial Officer  
AIR PRODUCTS & CHEMICALS INC /DE/  
1940 Air Products Boulevard  
Allentown, Pennsylvania 18106

CHEMICALS INC /DE/

Year Ended September 30, 2021

Period Ended December 31, 2021

Re: AIR PRODUCTS &

Form 10-K for the

Form 10-Q for the

File No. 001-04534

Dear Ms. Schaeffer :

We have limited our review of your filing to the financial statements and related disclosures and have the following comments. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to these comments within ten business days by providing the requested information or advise us as soon as possible when you will respond. If you do not believe our comments apply to your facts and circumstances, please tell us why in your response.

After reviewing your response to these comments, we may have additional comments.

Form 10-Q for the Period Ended December 31, 2021

Note 6. Equity Affiliates  
Equity Affiliate Investment in Jazan Integrated Gasification and Power Company (JIGPC), page 13

1. In regards to your initial investment of \$1.6 billion in the Jazan Integrated Gasification and Power Company, which was made primarily in the form of shareholder loans and interest in the joint venture, please address the following: represents a 55% Given your disclosures indicate that the investment was primarily made in the form of loans, please help us understand how you determined that the equity method would be appropriate pursuant to ASC 323-10-15-3; Please provide us with a summary of your significant rights and obligations under the joint venture agreement and correspondingly explain how you determined you have significant influence under ASC 323; and Please tell us how much of the \$1.6 billion was in the form of loans. If the entire

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\$1.6 billion was not in the form of loans, please tell us the remaining components of the investment and corresponding amounts.

In closing, we remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

You may contact Nudrat Salik at (202) 551-3692 or Al Pavot at (202) 551-3728 with any questions.

FirstName LastNameMelissa Schaeffer

Comapany NameAIR PRODUCTS & CHEMICALS INC /DE/

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FirstName LastName

Sincerely,

Division of Corporation Finance

Office of Life Sciences