

UNITED STATES INTERNATIONAL TRADE COMMISSION

In the Matter of:
SILICON METAL FROM AUSTRALIA, BRAZIL,
KAZAKHSTAN, AND NORWAY

) Investigation Nos.:
) 701-TA-567-569 AND 731-TA-1343-1345
) (FINAL)

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Place: Washington, D.C.
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UNITED STATES OF AMERICA
BEFORE THE
INTERNATIONAL TRADE COMMISSION

IN THE MATTER OF:) Investigation Nos.:
SILICON METAL FROM AUSTRALIA,) 701-TA-567-569 AND
BRAZIL, KAZAKHSTAN, AND NORWAY) 731-TA-1343-1345 (FINAL)

Main Hearing Room (Room 101)
U.S. International Trade
Commission
500 E Street, SW
Washington, DC
Thursday, February 15, 2018

The meeting commenced pursuant to notice at 9:30
a.m., before the Commissioners of the United States
International Trade Commission, the Honorable David S.
Johanson, Vice Chairman, presiding.

1 APPEARANCES:

2 On behalf of the International Trade Commission:

3 Commissioners:

4 Vice Chairman David S. Johanson (presiding)

5 Commissioner Irving A. Williamson

6 Commissioner Meredith M. Broadbent

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2 Congressional Appearance:

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4 4th District, Tennessee

5 The Honorable John Moolenaar, U.S. Representative, 4th
6 District, Michigan

7

8 Opening Remarks:

9 Petitioners (William D. Kramer, DLA Piper LLP (US))

10 Respondents (Stephen J. Orava, King & Spalding LLP; and
11 Jonathan T. Stoel, Hogan Lovells US LLP)

12

13 In Support of the Imposition of Antidumping and
14 Countervailing Duty Orders:

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17 on behalf of

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20 Metallurgical Inc.

21 Duane Huck, Corporate Manager, IT & Business

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12 Wacker Chemicals Norway

13 Wacker Chemie AG

14 Simcoa Operations Pty Ltd.

15 Shintech Inc.

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18 Mary Beth Hudson, Vice President, Wacker Polysilicon
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10 on behalf of

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13 Feedstocks, Basics and Intermediates, Dow Silicones

14 Craig S. Brown, Product Director, Strategic Feedstocks,
15 Dow Silicones

16 Michael P. Searcy, Commercial Director, Strategic
17 Feedstocks, Dow Silicones

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15 REC Advanced Silicon Materials LLC

16 Chris Bowes, Director for Investor Relations and Global

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20 Interested Party In Opposition:

21 Mitsubishi Polysilicon

22 Theodore, AL

23 Matt Wilson, President

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1 APPEARANCES (Continued)

2 Rebuttal/Closing Remarks:

3 Petitioners (William D. Kramer, DLA Piper LLP(US))

4 Respondents (Stephen J. Orava, King & Spalding LLP; and

5 Jonathan T. Stoel and Craig A. Lewis, Hogan Lovells US LLP)

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1 P R O C E E D I N G S

2 (9:30 a.m.)

3 VICE CHAIRMAN JOHANSON: Good morning. On behalf
4 of the U.S. International Trade Commission I welcome you to
5 this hearing on the final phase of Investigation Nos.
6 701-TA-567 to 569 and 731-TA-1343 to 1345 involving Silicon
7 Metal from Australia, Brazil, Kazakhstan and Norway.

8 The purpose of these final investigations is to
9 determine whether an industry in the United States is
10 materially injured or threatened with material injury or the
11 establishment of an industry in the United States is
12 materially retarded by reason of imports of silicon metal
13 from Australia, Brazil, Kazakhstan and Norway.

14 Schedule setting forth the presentation of this
15 hearing, notices of investigation and transcript order forms
16 are available at the Public Distribution Table. All
17 prepared testimony should be given to the Secretary. Please
18 do not place testimony directly on the Public Distribution
19 Table. All witnesses must be sworn in by the Secretary
20 before presenting testimony.

21 I understand that the parties are aware of the
22 time allocations. Any questions regarding the time
23 allocations should be directed to the Secretary. Speakers
24 are reminded not to refer in their remarks or answers to
25 questions to business proprietary information. Please speak

1 clearly into the microphones and state your name for the
2 record for the benefit of the court reporter.

3 If you will be submitting documents that contain
4 information you wish classified as business confidential
5 your request should comply with commission rule 201.6.

6 Mr. Secretary, are there any preliminary matters?

7 MR. BISHOP: Mr. Chairman, I would note that all
8 witnesses for today's hearing have been sworn in. There are
9 no other preliminary matters.

10 VICE CHAIRMAN JOHANSON: Very well. Will you
11 please announce our Congressional Witnesses?

12 MR. BISHOP: Our first Congressional Witness is
13 the Honorable Scott DesJarlais United States Representative
14 from the 4th district of Tennessee.

15 STATEMENT OF REPRESENTATIVE SCOTT DESJARLAIS

16 REPRESENTATIVE DESJARLAIS: Good morning,
17 gentlemen. My name is Scot DesJarlais and I am the
18 Congressional Representative for the 4th Congressional
19 District of Tennessee. The 4th District, just to get you
20 situated, is below Nashville to the Alabama Border, wraps
21 around Chattanooga and contains Bradley County. It is the
22 home to the famous Jack Daniels Distillery and I have had
23 the privilege to represent there since 2011.

24 While we are mostly a rural district, we are
25 proud to host a world class, high tech manufacturing

1 facility producing polysilicon in Bradley County. In 2011,
2 Wacker Polysilicon North America began construction of the
3 new 550-acre Greenfield site for the manufacture of
4 polysilicon.

5 As I'm sure you know, polysilicon is the raw
6 material driving some of the world's leading technologies
7 including solar power and semiconductors. Wacker has
8 invested over 2.5 billion to build this state-of-the-art
9 facility and recently broke ground on an HBK pyrogenic
10 silica plant adjacent to the polysilicon plant. This was
11 the largest single private investment ever made in the State
12 of Tennessee.

13 I know that Wacker could have selected other
14 locations for this investment but I'm incredibly proud that
15 they chose our state and our district. At full operation,
16 Wacker facility in Charleston employs approximately 700
17 workers and supports their families. At full capacity the
18 plant will be providing upwards to 20,000 tons of
19 polysilicon a year. The company has also recently embarked
20 on another 150 million dollar expansion to be completed in
21 2019 that will bring an additional 50 new manufacturing jobs
22 which are projected to pay between 50 and 70 thousand
23 dollars annually. These are valuable family-sustaining jobs
24 particularly for a rural area like my District.

25 The Wacker plant has also generated and

1 indirectly sustains hundreds of additional jobs for
2 suppliers and service companies throughout the region.
3 These stable, good paying jobs depend on the continued
4 viability of Wacker operation in Charleston, Tennessee.

5 Wacker has also taken steps to enhance workforce
6 development in the region by partnering with Chattanooga
7 State Community College Engineering Technology Division to
8 create the Wacker Institute. Graduates are prepared to
9 enter the workplace as chemical processing engineering
10 technicians for the region's diverse chemical manufacturing
11 companies.

12 Ultimately this partnership will include a new
13 apprenticeship model in three academic areas: Chemical
14 operations, electrical and instrumentation and mechanical
15 systems maintenance. For selective students the
16 apprenticeship of academic and practical experiences with
17 paid on the job training over a course of 5 semesters.

18 While all of these benefits of Wacker's
19 investment are good and very real, the continued viability
20 of Wacker polysilicon operations require that the company
21 continue to have access to a reliable supply of high quality
22 silicon metal as its principle raw material.

23 Wacker has predominantly purchased domestically
24 in the past and would prefer to continue to purchase from
25 U.S. Domestic sources if the product is commercially

1 available. With an estimated 22,000 tons of silicon metal
2 consumed every year Wacker has provided a huge incremental
3 sales opportunity for the U.S. Industry and we welcome that
4 development in my district. However, it is also my
5 understanding that U.S. Producers do not have the capacity
6 to supply the entire market. Having access to commercially
7 adequate supplies including imports is therefore essential
8 to the continuation and further development of operations at
9 the Charleston Plant. I am concerned that these proposed
10 tariffs can raise the cost of U.S. manufacturing providing a
11 further competitive advantage to foreign competitors and
12 cost the U.S. jobs.

13 It is for these reasons that I'm here today
14 asking the Commission to carefully consider the potentially
15 devastating impact that these tariff measures may have on
16 the availability of silicon metal to Wacker and other U.S.
17 businesses such as Dow. Closing the door to competitive
18 suppliers of silicon metal at reasonable market prices will
19 only hurt our Domestic Industries that rely on these inputs
20 and are working so hard to rebuild our U.S. manufacturing
21 infrastructure.

22 On behalf of the many hundreds of hardworking
23 Americans at Wacker facility and the thousands of locally
24 employed workers and their families that rely on the Wacker
25 Plant, I therefore urge you to take these effects into

1 account as you consider your votes in this important case.

2 The continued progress that has been made in my
3 district with the help of Wacker depends directly on the
4 outcome of this case. Thank you for your time and your
5 consideration in this matter.

6 VICE CHAIRMAN JOHANSON: Thank you, Congressman.
7 I visited your District just last year. It's a very pretty
8 place.

9 REPRESENTATIVE JARLAIS: We welcome you to come
10 often.

11 VICE CHAIRMAN JOHANSON: Certainly and do you
12 have any questions, Commissioner? Okay, with no questions
13 we appreciate you being here.

14 MR. BISHOP: Our next Congressional Witness is
15 the Honorable John Moolenaar, United States Representative
16 from the 4th District of Michigan.

17 STATEMENT OF REPRESENTATIVE JOHN MOOLENAAR

18 REPRESENTATIVE MOOLENAAR: Good morning vice
19 Chairman Johanson and Members of the Commission. I want to
20 thank you for the opportunity to appear before you today to
21 speak about the impact of silicon metal from Brazil and
22 three other countries on our silicon metal industry.

23 The Petitioners asking the Commission and the
24 Commerce Department to impose punitive duties on imports
25 from Brazil. If this happens, it will adversely affect the

1 complex supply chain that supports advanced U.S.
2 manufacturing and thousands of local jobs in Michigan.

3 As you know Dow Chemical is a major U.S. Producer
4 of silicon metal and the largest consumer of silicon metal
5 in the world. The vast majority of imports from Brazil are
6 from Dow's wholly-owned facilities in Brazil. Dow
7 internally consumes 100 percent of its imports to make over
8 3,000 products in U.S. manufacturing across Michigan,
9 Kentucky and Indiana. In fact, one of Dow's facilities
10 that uses imported silicon metal, Hemlock Semiconductor is
11 located in my Congressional district.

12 I'm asking the Commission to carefully consider
13 several important characteristics of the U.S. Silicon Metal
14 Market. First, the U.S. Industry has historically not been
15 able to satisfy demand in the U.S. Market. Because of this,
16 imports have always played a significant role in supplying
17 silicon metal to the U.S.

18 Second, more than half of the imports covered by
19 your investigation consists of a specialty silicon metal
20 that has low boron content. This metal is necessary to
21 produce the high-quality polysilicon that is the starting
22 point for U.S. production of solar cells and semiconductors.
23 It is not however produced in the United States.

24 The U.S. polysilicon industry including Hemlock
25 Semiconductor is already highly vulnerable as a result of

1 the continuing trade conflict between the United States and
2 China. Imposition of higher duties on the industry's supply
3 chain will threaten the U.S. polysilicon production and
4 productivity of the solar and semiconductor sectors.

5 Third, I would note that Dow owns D.C. Alabama a
6 significant U.S. Producer of silicon metal. It also owns 49
7 percent of a West Virginia joint venture with the Petitioner
8 that also produces silicon metal. Dow sources silicon metal
9 from these U.S. operations and purchases significant volumes
10 of silicon metal from other U.S. Producer Mississippi
11 Silicon.

12 Obviously, Dow would not import silicon metal
13 from Brazil if by doing so it would adversely affect the
14 certainty and security of its substantial U.S. operations
15 and other U.S. sources of silicon metal.

16 Finally, imposing duties on imports of silicon
17 metal from Brazil would adversely affect employment and
18 corporate investment levels in Michigan and throughout the
19 rest of the United States. Dow relies on three thousand,
20 four hundred and forty-three people in its silicon metal
21 value chain in Michigan to make products for the U.S. Market
22 and for export markets around the world.

23 Dow also owns a number of facilities in Michigan
24 that use imported and domestic silicon metal in the
25 production of downstream silicon products. Additionally

1 since 2011 Dow has made substantial capital improvements in
2 its facilities in Michigan, investing more than 1.8 billion
3 dollars. Moreover, throughout the United States Dow relies
4 on 4,340 people in its silicon metal value chain who earn
5 approximately 451 million dollars per year.

6 These new duties would have a tremendous negative
7 impact on Dow's workforce and its production operations. In
8 the end, I believe that imposing the duties sought by the
9 Petitioner would deny Dow access to raw materials necessary
10 to maintain its advanced U.S. silicon manufacturing
11 operations and also deny its ability to employ thousands of
12 hardworking Americans in Michigan and across the country.

13 I respectfully encourage the Commission to
14 carefully consider the balance of overall U.S. Interests and
15 the adverse effects on Michigan of any duties when
16 evaluating the relevant facts in these investigations. I
17 hope you will continue to encourage a level playing field
18 for all companies and not impose the punitive measures that
19 will hurt American jobs. Thank you for the opportunity to
20 testify today.

21 VICE CHAIRMAN JOHANSON: Thank you Congressman
22 Moolenaar for appearing here today. Do you have any
23 questions Commissioner Williamson? Okay, thank you. We
24 appreciate it.

25 MR. BISHOP: Mr. Chairman that concludes

1 Congressional testimony at this time. We will now proceed
2 with opening remarks. Opening remarks on behalf of
3 Petitioners will be given by William D. Kramer of DLA Piper,
4 U.S. Mr. Kramer, you have five minutes.

5 OPENING STATEMENT OF WILLIAM D. KRAMER

6 MR. KRAMER: Good morning, Mr. Vice Chairman and
7 Commission Williamson. The product involved in these
8 investigations silicon metal is a globally-traded commodity.
9 The Commission is familiar with this product from numerous
10 prior investigations and reviews. The nature of this
11 product and the conditions of competition in the U.S. Market
12 make the Domestic Industry particularly susceptible to
13 import injury.

14 Silicon metal is a product composed almost
15 entirely of elemental silicon. The imports from the Subject
16 Countries and the Domestic Product meet the specifications
17 of customers in all segments of the market and are sold in
18 all segments. Silicon metal consumers do not distinguish
19 between foreign and domestic suppliers. They do not care
20 where the silicon metal was produced if it meets their
21 specifications or can be used in their process.

22 The U.S. Market is highly competitive. Silicon
23 metal normally is sold through negotiations and competitive
24 bidding in which many competing domestic and import
25 suppliers participate. Extremely small differences in price

1 can determine who gets a sale. Consumers frequently change
2 suppliers on the basis of price or obtain price concessions
3 by threatening to change suppliers.

4 Published spot prices are used as benchmarks for
5 both spot and contract sales. Even with a contract in place
6 the contract price is often indexed or periodically adjusted
7 based on the published spot price. In addition, the
8 production of silicon metal is very capital intensive. For
9 that reason a producer must maintain the highest possible
10 level of capacity utilization to remain viable and can be
11 forced to lower its price or risk losing sales critical to
12 its continued operations.

13 The imports from Australia, Brazil, Kazakhstan
14 and Norway satisfy each of the Commission's criteria for
15 determining if Subject Imports compete with each other and
16 the domestic like product in the U.S. Market. Accordingly,
17 the Commission should assess the volume and effect of the
18 imports from all four Subject Countries on a combined basis.

19 There are three Domestic Producers: Globe, by
20 far the largest Domestic Producer and two related parties.
21 DC Alabama is a subsidiary of Dow Corning the largest
22 consumer of silicone metal and is related to a Brazilian
23 producer through common ownership by Dow Corning.
24 Mississippi Silicon is a new entrant that is majority owned
25 by a Brazilian silicon metal producer. Globe and

1 Mississippi Silicon are Merchant Market Producers. DC
2 Alabama provides silicon metal to Dow Corning for use in its
3 production operations. As a captive supplier, DC Alabama is
4 sheltered from the impact of the unfairly traded imports.

5 As the witnesses here today will testify the U.S.
6 Industry is being injured by the dumped and subsidized
7 imports from the Subject Countries. Over the period of
8 investigation these unfairly traded imports captured a large
9 share of the U.S. silicon metal market. From 2015 to 2016
10 the volume of imports from the Subject Countries increased
11 by more than 22 percent and their average unit value fell
12 by more than 19 percent.

13 During 2017 during the 2017 part-year period the
14 Subject Import volume continued to increase. The imports
15 average unit value further declined and the imports
16 continued to injure the Domestic Industry. While declines
17 in production and shipments have been important factors in
18 the injuries suffered by U.S. Producers, the impact of
19 unfairly traded imports on prices has been a primary source
20 of injury to the Domestic Industry. The imports have been
21 sold at very low prices that have undercut the prices of the
22 U.S. Producers and have caused lost sales, lost revenue,
23 price depression and suppression and declining market
24 prices.

25 The imports forced Globe to shut down its Selma,

1 Alabama plant. Employment at Globe Silicon Metal Operations
2 increased significantly from 2014 to 2015 but then fell
3 steeply in 2016 when the volume of Subject Imports increased
4 and their average unit values fell. Without relief from the
5 dumped and subsidized imports there is no prospect of the
6 kind of sustained price and volume recovery necessary to end
7 the severe damage that has been inflicted on the Domestic
8 Industry. Thank you.

9 MR. BISHOP: Opening remarks on behalf of
10 Respondents will be given by Stephen J. Orara of King and
11 Spalding and Jonathan T. Stoel of Hogan Lovells, U.S.
12 Gentlemen, you have five minutes.

13 OPENING STATEMENT OF JONATHAN STOEL

14 MR. STOEL: Good morning, Vice Chairman Johanson
15 and Commissioner Williamson. My name is Jonathan Stoel of
16 Hogan Lovells. On behalf of the Respondents I urge you to
17 render a negative file determinations in these
18 investigations.

19 The Domestic Industry has not suffered material
20 injury nor has there been any threat of material injury from
21 Subject Imports. Instead, this case is about opportunism.
22 Specifically, Petitioner alleges there is injury stemming
23 from when Subject Imports began in 2016 but the volume of
24 Subject Imports was flat between 2014 and 2016.

25 In 2015 saw the start of a global price decline

1 for silicon metal that impacted all major markets including
2 the United States. Two actors central to the Commission's
3 investigation are absent today. First, Mississippi Silicon
4 has elected not to participate and second, the behemoth
5 Ferroglobe, LLC the product of the 2015 merger between Globe
6 Specialty Metal and Ferro Atlantica has never been
7 acknowledged by the Petitioner in this proceeding.

8 Mississippi Silicon is the first new U.S.
9 Producer of silicon metal in more than 40 years. The
10 company successfully established manufacturing operations in
11 Burnsville, Mississippi. During the Period of
12 Investigation, Commissioners and that's notwithstanding
13 attacks by Ferroglobe, Mississippi Silicon stated in Federal
14 Court that Ferroglobe had sought to "maintain its monopoly
15 status as the only merchant manufacturer of silicon in the
16 United States" and to "delay or completely prevent
17 Mississippi Silicon from becoming operational".

18 Mississippi Silicon's successful operations and
19 efforts to obtain customers to qualify in the high end
20 segments of the market and to compete with Ferroglobe
21 reshaped the landscape for silicon metal in the United
22 States.

23 Second, my opponents claim that Ferroglobe is the
24 victim of Subject Imports but nothing could be further from
25 the truth. Let me highlight a few facts as our opponents

1 testify this morning. One, the Ferroglobe merger created a
2 combined company with twice the silicon metal capacity of
3 its nearest western competitor.

4 Ferroglobe's own financials boast of controlling
5 nearly one-third of the global merchant market and over 80
6 percent of the North American merchant market for silicon
7 metal. Two, seeking to cement its control over the global
8 silicon metal market Ferroglobe has also filed AD/CVD cases
9 on silicon metal in both Canada and Europe.

10 Importantly Commissioners, Canadian International
11 Trade Tribunal found that Ferroglobe was not, let me
12 reemphasize, not harmed by Subject Imports. Rather, the
13 CITT concluded that Ferroglobe's injuries were caused by the
14 global pricing downturn I mentioned earlier. The pricing
15 chart in your slides confirm the CITT finding.

16 Three, your staff found that Ferroglobe is the
17 price leader and dominant presence in the U.S. Market. As a
18 consequence, major U.S. consumers are strongly opposed to
19 this Petition and these duties. As a consequence, major
20 U.S. consumers are going to testify this afternoon, they
21 contribute thousands of jobs to the U.S. Economy. They are
22 deeply concerned about the Ferroglobe merger and their
23 limited purchasing options. You will also hear that
24 Ferroglobe has repeatedly not been a reliable supplier.

25 Last, Ferroglobe's own behavior in 2016 belies

1 its claims of injury due to Subject Imports. In that very
2 same year Commissioners, Ferroglobe elected to provide a
3 28.9 Million dollar golden parachute 28.9 million
4 Commissioners, to its former Executive Chairman.

5 Moreover in 2016 Ferroglobe chose to export
6 approximately 25 thousand tons of silicon metal to the U.S.
7 Market from South Africa. These exports occurred even as
8 Ferroglobe curtailed its U.S. Production operations. For
9 all these reasons I ask you to look skeptically on
10 Ferroglobe's injury claims. Thank you.

11 OPENING STATEMENT OF STEVE ORAVA

12 MR. ORAVA: Good morning. My name is Steve Orava
13 with King Spalding on behalf of Dow Silicon Corporation
14 which is a wholly owned subsidiary of the Dow Chemical
15 Company. Dow fully supports the opening statement by joint
16 Respondents Counsel.

17 As our witnesses will explain in more detail this
18 afternoon, Dow has developed highly integrated silicon and
19 polysilicon value chains in which thousands of American
20 workers use silicon metal to produce over three thousand
21 products at manufacturing sites around the United States.

22 These value changes include our own U.S. silicon
23 metal production, joint ventures with the Petitioner in West
24 Virginia and in Canada and two silicon metal facilities in
25 Brazil, including one that we purchased from the Petitioner.

1 Dow uses its Domestic production and all of its imports
2 internally for its U.S. manufacturing operations. It also
3 purchases additional silicon metal from the merchant market
4 including from the Petitioner and from Mississippi Silicon.

5 As a result, Dow is in a unique position in these
6 investigations as a U.S. Producer, a U.S. purchaser, a U.S.
7 Importer and a Foreign Producer. We also know the
8 Petitioner well and the market well and our witnesses look
9 forward to providing our unique insight later today.

10 In addition to reflect Dow's place in the market
11 we also ask that you consider Dow as part of the U.S.
12 Domestic Industry and that you consider imports from Brazil
13 separately. Doing so would appropriately consider the
14 unique nature of Dow's integrated silicon and polysilicon
15 value chains and its importance in preserving American
16 manufacturing. Thank you very much.

17 MR. BISHOP: Would the Panel in support of the
18 imposition of antidumping and countervailing duties please
19 come forward and be seated? Mr. Chairman, this Panel has 60
20 minutes for their direct testimony.

21 MR. KRAMER: Our first witness is Marlin
22 Perkins.

23 STATEMENT OF MARLIN PERKINS

24 MR. PERKINS: Good morning, commissioners. My
25 name is Marlin Perkins. I'm vice president of sales at

1 Globe. Since 1989, I have supervised the marketing and
2 sales of Globe's entire product line including silicon
3 metal. Globe is the largest domestic silicon metal producer
4 with plants in Selma, Alabama; Niagara Falls, New York;
5 Beverly, Ohio; and Alloy, West Virginia.

6 I am here today to testify about this product
7 silicon metal, the nature of the U.S. silicon metal market,
8 and the severe negative impact of the dumped and subsidized
9 imports from Australia, Brazil, Kazakhstan, and Norway on
10 the domestic silicon metal industry.

11 Silicon metal is a product composed almost
12 entirely of elemental silicon with very small amounts of
13 impurities such as iron, calcium and aluminum. Silicon
14 metal is a commodity product. Customer specifications
15 establish a minimum amount of silicon and a max amount of
16 the other elements that silicon metal sold to these
17 customers may contain.

18 For any given specification, domestic and
19 imported silicon metal are completely interchangeable.
20 Furthermore, so-called higher grade silicon metal can be and
21 often is sold to lower grade applications.

22 Most silicon metal is purchased by, chemical
23 manufacturers and aluminum producers. In the chemical
24 sector, silicon metal is the primary raw material used in
25 producing silicones and super high purity forms of silicon

1 such as polysilicon. Primary and secondary aluminum
2 producers use silicon metal as an alloying agent.

3 As an -- excuse me, as a commodity, silicon
4 metal is sold primarily on the basis of price. In the
5 marketplace, you can talk to customers about sales and
6 technical service, about quality or reliability of supply in
7 an effort to differentiate your product from the
8 competition. But what the customer always comes back to is
9 price, how much per pound of silicon.

10 The U.S. silicon metal market is highly
11 competitive. In addition to the two domestic merchant
12 market producers, Globe and Mississippi Silicon, there are
13 many other sources of imported silicon metal competing for
14 sales. Publications such as CRU Monitor and Platts Metals
15 Week regularly publish information regarding silicon metal
16 spot prices. Buyers and sellers use these published prices
17 as benchmarks in negotiating prices for both spot and
18 contract sales.

19 In addition, the published prices are used as a
20 basis for prices in contracts with formulas and price
21 provisions. For example, a contract may provide that
22 deliveries during a given month are priced at the average of
23 metals' week's prices for silicon metal published in the
24 previous -- preceding month.

25 In buying silicon metal, purchasers typically

1 receive offers or bids from at least four to six suppliers
2 and in many cases, as many as 10 suppliers. Purchasers
3 often will communicate these prices to competing suppliers
4 in an effort to obtain the best price possible. The
5 availability of published price data and the multiple offers
6 received by purchasers ensure that prices are quickly
7 communicated throughout the market.

8 Domestic and import suppliers compete for sales
9 on the basis of price. A price difference of a half a penny
10 per pound or less can determine who gets the sale. This is
11 true even where the purchaser has an established
12 relationship with a supplier. If we are giving -- given a
13 second look. Because we're the existing supplier, we are
14 normally expected to meet the lowest bid in order to
15 maintain our relationship with the customer.

16 The silicon metal that Globe produces competes
17 directly with the silicon metal imported from all of the
18 subject countries for sales to U.S. customers. There is
19 nothing special about the imports from any of the subject
20 countries or about customer requirements that prevents our
21 silicon metal from competing effectively with the imports.
22 It's simply a matter of price.

23 Specifically, I understand that the claim is
24 being made that Brazilian silicon metal is special because
25 of its low boron content. First of all, it is important to

1 understand that there is no such recognized commercial
2 product as low boron content silicon metal. No customer has
3 ever called and asked whether Globe can supply such a
4 product. Most customers do not specify a maximum boron
5 content because they don't care about how much boron is in
6 the material.

7 Furthermore, the silicon metal produced by Globe
8 meets the boron specifications of those customers that do
9 specify a maximum boron level. Globe has never been told by
10 a customer that its silicon metal contains too much boron
11 and no customer has ever rejected any silicon metal supplied
12 by Globe because of boron content.

13 Even those purchasers that do specify a maximum
14 boron content do not specify a level as low as that
15 identified in the commissioner's questionnaires.

16 The largest domestic consumers of silicon metal
17 are the chemical producers such as Dow, Corning, Momentive
18 Performance Materials, and REC Silicon. These companies
19 purchase large quantities of silicon metal by soliciting
20 bids or offers from competing import and domestic suppliers.

21 As a result of the commodity product nature of
22 the silicon metal, the size of these purchasers, and the
23 competitive purchasing process, these purchasers have a
24 great deal of pricing leverage. All these factors combine
25 to make the U.S. silicon metal market extremely competitive

1 and price driven.

2 The silicon metal producers in Australia,
3 Brazil, Kazakhstan, and Norway are highly export oriented
4 because they have small or non-existent home markets,
5 producers in these countries are forced to export and the
6 U.S. market is a key export destination for all four
7 countries.

8 Kazakhstan is a new entrant into the market that
9 quickly established a significant market presence by selling
10 at low prices. From no volume at all in 2014, imports from
11 Kazakhstan increased to about 11,000 short tons in 2016.
12 During the 2017 part-year period, imports from Kazakhstan
13 increased by an additional 30 percent as compared to the
14 2016 part-year period.

15 Imports from all four countries combined grew
16 more than 20 percent from 2015 to 2016, to a total volume of
17 more than 110,000 short tons. Furthermore, not only was
18 there a large increase in volume, but the average unit value
19 of the imports fell significantly over the same period. In
20 part-year 2017, the average unit values of subject imports
21 either continued to decline or remained at very low,
22 depressed levels.

23 These dumped and subsidized imports have
24 severely injured Globe. Our silicon metal operations which
25 had been profitable, have suffered very serious financial

1 harm. In addition as Mr. Huck will describe, we were forced
2 to shut down our Selma plant to idle furnaces at other
3 locations and to layoff workers.

4 I would like to explain how the subject imports
5 have inflicted this injury based on my experience in the
6 market. As vice president of sales for Globe, I've seen the
7 aggressive pricing of silicon metal from the four countries
8 firsthand. I am directly involved in our sales to domestic
9 customers and serve as their primary point of contact.

10 In dealing with customers, I have seen silicon
11 metal from Australia, Brazil, Kazakhstan, and Norway offered
12 at rock bottom prices that under cut our prices. Virtually
13 all of our sales are made pursuant to contracts. Most
14 silicon metal contracts are negotiated or competitively bid
15 during the so-called mating season in the fourth quarter of
16 the calendar year for shipments during the following year.
17 In the negotiation and bidding in the fourth quarter of
18 2015, Globe in many cases unable to meet the extremely low
19 prices offered by the subject import suppliers and as a
20 result, lost large volume of 2016 sales to primary and
21 secondary aluminum producers.

22 In addition to the imports low prices, another
23 significant factor contributing to the sales losses in 2016
24 is a particular type of pricing mechanism used by the
25 subject import suppliers. These suppliers frequently offer

1 to sell silicon metal at index prices discounted from the
2 published benchmark prices with no floor, limiting the level
3 to which the discounted index prices could fall.

4 For example, they might offer a silicon metal
5 under an annual contract for a price five cents per pound
6 below the average metals week price during the month
7 preceding the month of delivery with no floor. For sales in
8 2016, subject import suppliers offered silicon metal at
9 index prices discounted as much as 8 cents per pound, below
10 the published benchmarks with no floor. While index
11 pricing is not a new phenomenon in the silicon metal market,
12 such large discounts below published price were
13 unprecedented. Excuse me.

14 In an effort to avoid being forced to sell at
15 prices below our cost of production, Globe resisted making
16 sales at index prices below the published benchmarks and
17 also would not agree to index pricing with no floor. By
18 resisting such provisions, Globe lost sales to the subject
19 import suppliers.

20 Globe not only was hurt by the loss of these
21 sales volumes, but also by the reduced prices at which we
22 were forced to make sales because the very low competing
23 subject import prices. Many of these price drops occurred
24 during the fourth quarter of 2015 purchasing cycle. In
25 addition, one major chemical industry customer forced us to

1 reduce our long-term contract price for the year 2016. And
2 a major chemical producer customer, we have agreed to reduce
3 prices for the second half of 2016. And finally, even
4 though Globe resisted to agreeing to index price
5 arrangements and sold predominantly on a fixed price basis
6 in 2016, Globe was forced to make a few sales on an index
7 price basis in order to avoid losing the business
8 altogether.

9 As a result, Globe suffered significant injury
10 when the prices under these contracts were driven down by
11 the subject imports to below cost levels in 2016.

12 In 2017, we sold most of our volume pursuant to
13 annual or long-term contracts. Our annual contract for 2017
14 were negotiated during the mating season in 2016, which
15 began in October of that year.

16 October was the very month when published prices
17 hit bottom after dropping throughout the year. Like in
18 2015, we were facing competition from subject import
19 suppliers who were offering to sell silicon metal on an
20 indexed basis at discounts from the published price with no
21 floor. Globe made no sales on an indexed price basis.

22 We also resisted making sales at prices below
23 the published benchmark, so as not to be compelled to sell
24 at prices even further below our cost of production than in
25 2016.

1 In addition, in 2017, we were forced to reduce
2 our long-term contract price to a major customer in order to
3 keep the contract. As a result of the aggressive subject
4 import pricing, our financial performance continued to
5 suffer in 2017.

6 We at Globe are proud of our silicon metal
7 manufacturing operations and are confident that we can
8 compete effectively with trade -- fairly-traded imports. In
9 filing this case, we are asking our government to provide
10 relief from the very serious harm that dumped and subsidized
11 imports have inflicted on our company and its workers and to
12 allow us to compete with the imports on a level playing
13 field. Thank you.

14 MR. KRAMER: Our next witness is Mr. Huck.

15 STATEMENT OF DUANE HUCK

16 MR. HUCK: Good morning, my name is Duane Huck.
17 I have been employed by Globe since 1992. I began my career
18 on the production floor operating and tapping the silicon
19 metal furnaces and have been involved with the silicon metal
20 operations ever since.

21 For 10 years, I was plant manager at three of
22 Globe's silicon metal plants and was directly responsible
23 for the day-to-day operations of the facilities. For six
24 years, I was Globe's vice president of operations. In that
25 position, I was responsible for the operations of all our

1 silicon metal plants.

2 In my testimony, I will briefly describe the
3 silicon metal production process, including the fact that
4 Globe produces silicon metal, meeting the specifications of
5 customers in all segments of the silicon metal market, as
6 well as the devastating injury the imports from Australia,
7 Brazil, Kazakhstan, and Norway have inflicted on Globe and
8 its workers.

9 I will also discuss Globe's decision to restart
10 its Selma, Alabama plant and the significant capital
11 expenditures incurred to restart the plant.

12 As the Commission knows, silicon metal is
13 manufactured by smelting high purity quartzite in a
14 submerged electric arc furnace. The production process is
15 highly energy intensive. In the furnace, the high purity
16 quartz is combined with a carbon-containing reductant such
17 as low ash coal, charcoal, or petroleum coke and a bulking
18 agent, usually wood chips.

19 These raw materials are heated to a very high
20 temperature. The resulting chemical reaction in the furnace
21 produces molten silicon metal, which is removed from the
22 furnace and poured into large flat-iron molds or on to beds
23 of silicon metal fines.

24 After the silicon metal has cooled and
25 solidified, it is crushed to the desired size to meet

1 customer specifications. For certain chemical industry
2 customers, the silicon metal is ground into powder.

3 To operate efficiently and reduce per unit fixed
4 costs, the submerged arc furnaces used to produce silicon
5 metal must run continuously 24 hours a day, seven days per
6 week. I understand that Brazilian producers are claiming
7 that their silicon metal is unlike silicon metal produced in
8 the United States because of its low boron content.
9 Contrary to these claims, the silicon metal that we
10 regularly produce meets the boron specifications of all the
11 customers whose specifications contain a boron limit.

12 We produce such silicon metal without any
13 changes to our normal production process. In its
14 questionnaires, the Commission defined low boron content
15 silicon metal as silicon metal containing 20 parts per
16 million or less boron, a level well below the lowest boron
17 content limit specified by any customer.

18 Nevertheless, as Globe has reported in its
19 questionnaire, throughout most of the period of
20 investigation, Globe produced significant volumes of silicon
21 metal containing 20 parts per million boron or less.

22 Furthermore, through raw material selection and
23 preparation, Globe is capable of consistently producing
24 silicon metal that contains 20 parts per million or less
25 boron. It is important to understand that boron is a -- is

1 only of concern to purchasers that use silicon metal to
2 produce polysilicon. As Mr. Perkins explained, most
3 customers do not care about boron content and therefore
4 their specifications do not contain a boron limit.

5 For that reason in most cases, we do not test
6 for boron content. Because we only reported shipments as
7 low boron content material when the boron content had been
8 determined by testing, the volumes of low boron content
9 silicon metal we reported to the Commission are
10 significantly understated.

11 Silicon metal metal production is a highly
12 capital intensive manufacturing process. Globe's largest
13 assets are its four silicon metal plants and in particular
14 the furnaces at the plants. Globe has made large
15 investments in its silicon metal production operations to
16 create state-of-the-art facilities capable of producing
17 silicon metal as efficiently as possible. Such investments
18 require the company to be profitable and to generate
19 adequate cash flow.

20 Silicon metal production involves high fixed
21 cost. To be able to recover these costs, we need to run the
22 furnaces at the highest rate of capacity utilization
23 possible so that we can spread these costs over a
24 sufficiently large volume of silicon metal sales.

25 If we are forced to compete with imports sold at

1 dumped and subsidized prices, we have two choices: either
2 lower our prices to the level of the imports so that we can
3 maintain an adequate level of production or lose the sales
4 to the imports and end up having to shut down capacity.
5 Either way, our financial performance suffers.

6 As Mr. Perkins explained, in 2016, a large
7 volume of low-priced imports from Australia, Brazil,
8 Kazakhstan, and Norway surged into the U.S. market, taking
9 sales away from Globe and forcing down our prices.

10 In order to lower our costs, we were forced to
11 reduce capacity. We had to shut down our Selma, Alabama
12 plant for 18 months from February 2016 until July 2017,
13 which resulted in the loss of a large number of jobs.

14 In addition, we had to idle furnaces at other
15 plants, which led to additional layoffs and to convert a
16 furnace to fair silicon production at another plant.
17 Between 2015 and 2016, more than 18 percent of our
18 production-related workers lost their jobs.

19 For the company, shutting down capacity
20 increases the per unit cost of the remaining production
21 because, as I explained, fix costs are spread over a smaller
22 volume of production and sales.

23 As prices collapsed and Globe lost sales volume
24 to the imports, we were forced to curtail capital
25 investments including furnace upgrades and to postpone

1 necessary maintenance expenditures.

2 After Globe filed its petition and the
3 Commission and the Commerce Department issued their
4 affirmative preliminary determinations, we began to see
5 improving conditions in the domestic silicon metal market.
6 Spot prices in the market increased significantly. We also
7 began to see an increase in the level of orders from our
8 customers. Because we wanted to be in a position to supply
9 increased volumes of silicon metal to meet the needs of our
10 customers if conditions continued to improve, Globe
11 undertook the risk of restarting the Selma plant in the
12 summer of 2017 after an 18-month shutdown.

13 Globe spent a total of about \$4 million to bring
14 the plant's two furnaces back online. These expenditures
15 include the cost of cleaning and repairing the furnace
16 linings, the water cooling and hydraulic systems, repairs to
17 the electrical equipment, and repairs to or replacements of
18 mobile equipment.

19 These expenditures reflect Globe's commitment to
20 the Selma plant, its workers, and its customers in the
21 southeastern United States that are served by the Selma
22 plant.

23 I devoted my entire career to Globe. We have
24 world class equipment and workforce to -- required to be a
25 highly efficient silicon metal producer. We have proven

1 that we are able to compete successfully with large volumes
2 of fairly traded imports. However, we cannot compete with
3 dumped and subsidized imports sold at unfairly low and
4 declining prices that take away sales to our customers and
5 force us to shut down production capacity.

6 I ask that you provide the relief from these
7 unfair imports that the domestic industry needs to continue
8 to operate and to provide jobs to its workers. As you can
9 see in the financial data we reported without such relief,
10 the continued viability of the industry would be severely at
11 risk. Thank you.

12 MR. KRAMER: Our next witness is Mr. Williams.

13 STATEMENT OF ANTONIO WILLIAMS

14 MR. WILLIAMS: Good morning. I would like to
15 thank the Commission for letting me testify today. I am
16 Antonio Williams. I'm the president of Local 83693 of the
17 Industrial Division of Communications Workers of America,
18 which represents the workers at Globe silicon plant in
19 Selma. Alabama. The IUE-CWA supports the petition in the
20 unfair trade case. The IUE-CWA represents 150,000
21 manufacturing workers across the country.

22 I am speaking today on behalf of the union and
23 the workers at the Selma plant, who will be directly
24 impacted by the Commission's decision on these
25 investigations. My union and our members are extremely

1 concerned about the harm that the import of silicon metal
2 from Australia, Brazil, Kazakhstan and Norway has inflicted
3 on Globe and its workers.

4 I have worked at the plant for 13 years as a
5 furnace operator. My job enables me to support my family.
6 My wife and I have two daughters. Selma is one of the most
7 poorest communities in Alabama. Over 40 percent of the
8 people in Salem live below the poverty line. The Selma
9 plant is an important employer for the surrounding area, as
10 a source of long-term, good union manufacturing jobs.

11 For 50 years, it has provided generations of
12 work with the opportunity to earn a good livelihood and to
13 support their family. In some cases, my co-workers have
14 worked at the plant for more than 20 or 30 years. Many of
15 my co-workers have fathers who have worked at the plant and
16 other family members who are currently employed there. In
17 addition to our good wages, a worker like me receives
18 medical insurance for us and our family, as well as
19 matching contributions to our 401 account under our union
20 contract.

21 Globe also provides life insurance, at least
22 two weeks' paid vacation and ten paid holidays. We receive
23 monthly bonuses that are tied to the production of the
24 plant. All workers at the Selma plant are required to
25 participate in continuing training. We have mandatory

1 safety training once a month. In addition, I am provided
2 with furnace training at the plant and sometimes at other
3 Globe plants in the United States.

4 We strive to be open, operating as efficiently
5 as well as we can and safely as we can. We are very proud
6 of the work we do, our record of accomplishment and what it
7 means for the company customer in the community where we
8 live. I can tell you based on my experience how important
9 my employment at Selma plant is to me and my family.

10 The Selma plant was shut down from February
11 2016 through July 2017, and I was laid off. During that
12 period, I had to find two jobs. While working those two
13 jobs, I had to work 60 hours per week and I made one-third
14 of the amount I made working at the Selma plant, where I
15 worked 40 hours. I also had no benefits from those two
16 jobs. The shutdown also was very difficult for my
17 co-workers at the plant. More than 80 were laid off during
18 the shutdown.

19 Unemployment benefits were not enough to
20 support them and their families. Most workers could not
21 find jobs in the area, and some were forced to find work
22 outside of Alabama. I and all the other workers were very
23 happy to return to our jobs when we was hired back in July
24 of 2017. The Selma plant is also important for the rest of
25 the community. It buys raw materials, supplies, equipment,

1 machinery and services from contractors and subcontractors
2 in Alabama.

3 This benefits not only more than 100
4 businesses but also their workers. We are very proud of the
5 work we do and the contributions that we make to our
6 community. We work very hard to be efficient and safe, but
7 we cannot compete with imports that are dumped and unfairly
8 subsidized. We suffered when the Selma plant was shut down
9 for over a year.

10 Please help us keep our jobs and the Selma
11 plant open. We need the support of our government to make
12 sure we are able to compete on a level playing field. Thank
13 you.

14 MR. KRAMER: Our next witness is Jennifer
15 Lutz.

16 STATEMENT OF JENNIFER LUTZ

17 MS. LUTZ: Good morning. I'm Jennifer Lutz
18 from Economic Consulting Services. There are a number of
19 conditions of competition that are distinctive to the U.S.
20 silicon metal market. Silicon metal is a commodity product
21 used in the production of primary and secondary aluminum
22 ending chemical applications, namely the production of
23 silicones and polysilicon.

24 Customers generally require suppliers to meet
25 certain specifications. The differences in these

1 specifications, although important to purchasers, tend to be
2 minor and can be met by both domestic and import suppliers.
3 The Commission has conducted a number of silicon metal
4 investigation and has found that although silicon metal is
5 described in terms of grades, there is no uniformly accepted
6 grade classification system.

7 These grades instead refer to ranges of
8 specifications that are generally sold to different groups
9 of customers such as chemical grade material. These
10 specifications establish the minimum amounts of silicon and
11 maximum amounts of impurities such as iron, calcium,
12 aluminum and titanium that may be contained in the product.

13 Silicon metal meeting particular
14 specifications is completely interchangeable with other
15 silicon metal meeting the same specifications, whether from
16 a domestic or import source. With respect to
17 substitutability, the Commission's prehearing report states
18 that "the elasticity of substitution depends upon the
19 extent of product differentiation between the domestic and
20 imported products." The report goes on to conclude that
21 "based on available information, the elasticity of
22 substitution between U.S.-produced silicon metal and
23 imported silicon metal is high."

24 Production of silicon metal for various types
25 of customers is not separate from production for other types

1 of customers. Silicon metal producers, with few exceptions,
2 produce silicon metal for all customers using the same
3 equipment, the same employees and the same raw materials.
4 Because silicon metal is a commodity product with domestic
5 and import suppliers producing silicon metal that meets the
6 specifications of purchasers in all market segments,
7 competition among suppliers is based on price and small
8 differences in price can cause purchasers to switch
9 suppliers.

10 The prehearing report notes that of 29
11 responding purchasers, 22 found price to be a very important
12 factor, purchase factor, six found it to be somewhat
13 important, and only one reported that price was not
14 important. Price and cost were identified as among the top
15 three factors used in purchasing decisions by 27 of 29
16 reporting purchasers.

17 Information regarding spot prices in the U.S.
18 market is readily available. A number of industry
19 publications publish information on spot prices. Platt's
20 Metals Week, for example, surveys producers, traders and
21 consumers as to prevailing spot market prices and publishes
22 the results weekly. While the published silicon metal
23 prices reflect specifications typical for the secondary
24 aluminum segment, those prices affect all segments of the
25 silicon metal market.

1 As I mentioned, silicon metal is used in the
2 production of primary and secondary aluminum, silicones and
3 polysilicon. There are no substitutes for silicon metal in
4 these applications. Demand for silicon metal therefore
5 follows demand for these downstream products. Demand for
6 silicon metal is price-inelastic, meaning that a decrease in
7 the price of silicon metal does not lead to significantly
8 higher consumption.

9 In the prehearing report, the Commission
10 estimated that demand elasticity for silicon metal to be in
11 the range of negative .025 to negative .5. Many domestic
12 and import suppliers compete in the U.S. silicon metal
13 market. These include three U.S. producers and multiple
14 import sources. Dow is a long-time commercial producer or
15 Globe is a long-time commercial producer of silicon metal.

16 Dow Corning Alabama was originally a
17 commercial producer, but was purchased by Dow Corning and is
18 now primarily a captive producer for its chemical business.
19 Mississippi silicon is a more recent addition to the
20 domestic industry, starting commercial production in late
21 2015. While the startup of Mississippi silicon masks some
22 of the downward volume trends in the domestic industry, it
23 is notable that the company announced plans to build the
24 facility in January of 2014, a month in which U.S. spot
25 prices rose from \$1.25 per pound to \$1.34 per pound, well

1 before the steep and sustained drop in U.S. spot prices that
2 occurred in 2015.

3 The \$200 million plant opened in October 2015,
4 when published prices were well into their decline, at only
5 \$1.14 per pound, 22 percent below the 2014 high level of
6 \$1.46 per pound. With respect to imports of silicon metal,
7 in 2016 and part-year 2017, 14 countries supplied the U.S.
8 market. The domestic product and subject imports compete in
9 all segments of the market, and no segment is insulated from
10 subject import competition.

11 Respondents make many arguments with respect
12 to attenuation of competition in the U.S. market.
13 Respondents, however, fail to explain how such attenuation
14 is consistent with the record collected by the Commission,
15 and which facts support a change from the Commission's
16 previous determinations with respect to silicon metal.

17 The record assembled by the Commission in this
18 investigation does not support any assertions of
19 attenuation. Data compiled from the purchasers'
20 questionnaires indicate that the U.S. produced product is
21 comparable to the subject imports. One factor for which
22 U.S. product was most often found to be inferior to the
23 subject imports is price, indicating that subject import
24 prices are largely lower than U.S. producer prices, but that
25 quality differences are not meaningful.

1 The prehearing report also notes that 26 of
2 the 29 responding purchasers purchased domestic silicon
3 metal, 25 purchased imports of silicon metal from the
4 subject countries, and 20 purchased silicon metal imported
5 from other sources. This large overlap further demonstrates
6 the practical interchangeability of domestic silicon metal
7 and silicon metal from the subject countries, as well as
8 other import sources.

9 While I will not be covering all of the
10 cumulation factors, I would like to address fungibility.
11 The prehearing report discusses only the shipment data
12 collected with respect to so-called low boron content, high
13 purity and metallurgical grade silicon, product categories
14 created for the purpose of the questionnaires that are not
15 recognized in the market.

16 This discussion ignores the bulk of the record
17 evidence with respect to fungibility. In considering
18 Respondents' claims with respect to the importance of boron
19 content and the resulting issues of fungibility, the
20 Commission must evaluate first, how important boron content
21 is to the market and second, whether there is any meaningful
22 difference between the domestic product and subject imports
23 in their ability to meet boron requirements.

24 It is interesting that with all of the
25 argument with respect to the importance of low boron silicon

1 metal, no party has stated on the record what constitutes
2 low boron levels. In order to bid on sales and supply
3 various purchasers, Globe has documents outlining the
4 specifications required by its customers. Mr. Perkins
5 testified that Globe can meet all of these specifications.

6 The record evidence, particularly as provided
7 in the purchaser questionnaires, completely contradicts
8 Respondents' arguments with respect to low boron material.
9 Fourteen of the responding purchasers indicated that low
10 boron content is not important at all, and eight noted that
11 it was only somewhat important.

12 While half of responding purchasers did
13 indicate that low boron content was either very important or
14 somewhat important, a large majority of purchasers indicated
15 that the U.S. product and subject imports are comparable
16 with respect to low boron content. Of responding
17 purchasers, 11 of 12 indicated that U.S. product is
18 comparable to imports from Australia. For Brazil, it was 12
19 of 13 purchasers. For Kazakhstan, it was 8 of 9 purchasers,
20 and for Norway it was 4 of 5 purchasers.

21 If U.S. product is comparable to imports from
22 each of the subject countries with respect to this factor,
23 it follows that subject imports from each country are
24 comparable to imports from the other subject countries. In
25 fact, the questionnaire data show that importers and

1 purchasers generally find that imports from each of the
2 subject countries are always or frequently interchangeable
3 with imports from the other subject countries.

4 The record shows that Respondents' repeated
5 references to boron content are an effort to create
6 distinctions where none exist. While certain purchasers do
7 provide maximum boron levels in their product
8 specifications, Globe is unaware of any purchaser with boron
9 specifications as low as those defined in the questionnaire,
10 and the limited information with respect to actual
11 specifications on the record is consistent with Globe's
12 understanding.

13 Globe has also never been asked to lower boron
14 content of its material or failed to met a customer's boron
15 specification.

16 Furthermore, the relative volumes by so-called
17 product type reported in the questionnaires are not
18 meaningful. First, in order to report shipments as meeting
19 the low boron specification, the producer or importer would
20 have to test for boron content in that shipment, and Globe
21 does not test most of its shipment for boron content because
22 most purchasers do not have a specification for it. Globe's
23 product meets the specs of its purchasers that do care about
24 boron content.

25 Second, just because a producer or importer

1 shipped material meeting the low boron specs, it does not
2 follow that the purchaser required silicon metal meeting
3 that spec. As the Commission has found in multiple
4 investigations, it is common for producers to sell down
5 higher grade silicon metal to purchasers with less stringent
6 specifications. Competition is certainly not attenuated by
7 low boron content if the purchaser does not require that
8 content.

9 It's interesting to me how much Respondents
10 have focused on boron content in this injury investigation.
11 The Commission has never been asked to consider this before,
12 despite the long history of silicon metal proceedings. No
13 Brazilian producer mentions boron content on its website.

14 At the Department of Commerce, parties are
15 required to identify product characteristics that need to be
16 taken into account in appropriately matching home market
17 sales to U.S. sales in determining the margin of dumping.
18 Not a single respondent cited boron content as a relevant
19 characteristic.

20 Moreover, in its case brief in the Department
21 of Commerce anti-dumping investigation on silicon metal from
22 Brazil, Dow Corning stated "silicon metal from various
23 sources, including Brazil, is co-mingled and treated as
24 fungible within the inventory system." Thus, Dow Corning
25 certified to the Department that it treats Brazilian silicon

1 metal and silicon metal from other countries as fungible in
2 its own operations.

3 It is also notable that of the hundreds of
4 pages of third party on silicon metal available, I have seen
5 no mention of boron.

6 Turning to the volume of subject imports, the
7 volumes have been significant. In this investigation, the
8 Commission has relied on official import statistics using
9 general imports. Subject imports declined overall from 2014
10 to 2015, as did the volume of total imports, due largely to
11 declines in volumes from Brazil, which suffered power
12 shortages during that period. Imports from the other three
13 subject countries increased from 2014 to 2015.

14 In 2016, as total imports declined again,
15 subject imports increased in volume by more than 20 percent.
16 Subject imports accounted for roughly half of total imports
17 in 2015, but the combination of declining total imports and
18 increasing subject imports caused subject imports to
19 increase their share of total of imports in 2016 to 67
20 percent.

21 The volume of subject imports continued to
22 increase in 2017. After the 22 percent increase from 2015
23 to 2016, it increased further by over 25 percent from
24 part-year 2016 to part-year 2017. In part-year 2017,
25 subject imports accounted for over 76 percent of total

1 import volumes.

2 As subject imports increased significantly in
3 volume from 2015 to 2016, the average unit value of such
4 imports fell by 19 percent, falling from \$1.33 per pound in
5 2015 to only \$1.08 in 2016. In part-year 2017, the average
6 unit value of subject imports fell below 2016 levels to only
7 \$1.07 per pound.

8 During the Period of Investigation, subject
9 import volumes were significant and increased from 2015 to
10 2016 and into 2017, absolutely and as a percent of total
11 imports as a percent of domestic production and as a percent
12 of apparent consumption. How did the subject imports
13 increase their presence in the U.S. market? By selling at
14 low prices.

15 As I noted, the volume of subject imports
16 increased significantly from 2015 to 2016, while the AUV of
17 such imports fell by 19 percent. While it is true that that
18 domestic industry does not have the capacity to supply all
19 of U.S. demand, if subject imports were drawn into the U.S.
20 market due to any supply shortages, silicon prices should
21 not have fallen so much.

22 Instead, published prices increased overall in
23 2014, but started to decline steadily in 2015. Globe was
24 relatively lucky in 2015 in that it had negotiated fixed
25 price contracts in late 2014 before the precipitous decline

1 in prices. In 2016 however, it was forced to face the low
2 prices prevailing in the market.

3 The record shows that subject imports
4 undersold domestic product in 66 of 88 comparisons over the
5 Period of Investigation, with the majority of the import
6 volume underselling domestic product. The underselling
7 reported in the prehearing report is consistent with the
8 injury experienced by the domestic industry.

9 As the Commission noted in its preliminary
10 determination, the margins of underselling increased in
11 2016, when the domestic industry experienced serious injury.
12 The low prices of the subject imports had a significant
13 impact on domestic industry operations.

14 Ten purchasers have confirmed switching
15 purchases from domestic product to subject imports on the
16 basis of price, and these purchasers confirmed that the
17 domestic industry lost sales to each of the subject
18 countries, with several purchasers indicating that they
19 purchased subject imports from more than one subject
20 country instead of domestic product on the basis of price.

21 The number of purchasers indicating that they
22 purchased subject imports instead of domestic product
23 because of price was highest for Brazil, followed by
24 Kazakhstan, Australia and Norway. The prehearing report
25 understates the actual volume of lost sales, as at least one

1 purchaser confirmed that lower prices were a primary reason
2 for purchasing subject imports, but failed to specify the
3 quantity of that purchase.

4 The Commission likewise confirmed that
5 domestic producers lowered prices in competition with the
6 subject imports, with confirmed price reductions of 30
7 percent. These data strongly contradict the many assertions
8 that competition is attenuated. While the availability of
9 published market prices and contract prices based on such
10 published prices is not a new phenomenon, subject imports
11 increasingly entered into contracts setting price formulas
12 at significant discounts to the published prices, and
13 without setting minimum prices below which the contract
14 prices could not fall.

15 Globe was unwilling to enter into such
16 contracts, and therefore lost significant volumes to the
17 subject imports. Had Globe entered into such contracts and
18 been required to sell at a discount to the published price,
19 Globe's financial deterioration in 2016 would have been even
20 worse than what it reported.

21 In competition with the unfairly traded
22 imports, the domestic industry suffered a cost-price
23 squeeze, with cost of goods sold as a percent of net sales
24 values increasing steadily throughout the period. The
25 members of the domestic industry suffered the impact of the

1 subject imports in different ways. D.C. Alabama is a
2 captive producer and generally is sheltered from import
3 competition.

4 As I noted earlier, Mississippi Silicon
5 announced plans and broke ground on its new plant at a time
6 when domestic silicon metal prices were relatively high, but
7 started production after prices fell to very low levels. It
8 is hard to imagine that the company was reaping any rewards
9 from its U.S. investment during the Period of Investigation,
10 given that change in prices.

11 The clearest data with respect to domestic
12 industry injury come from Globe, which had the option of
13 selling larger volumes in 2016 at uneconomically low prices
14 or losing significant volume. By refusing to offer
15 significant discounts to the published prices, it suffered
16 reductions in production, shipments and sales volumes.

17 Despite its efforts to keep prices high enough
18 to cover its costs by sacrificing volume it suffered
19 declining prices in 2016 along with the declining volumes.
20 It closed one of its facilities entirely, idled two furnaces
21 and other facilities, and switched another furnace from
22 silicon metal to ferrosilicon production.

23 Silicon metal production has high fixed costs,
24 and the volume reductions and furnace shutdowns caused
25 Globe's fixed costs to be spread out over a smaller and

1 smaller volume of production. As production fell and plants
2 and furnaces were shut down, employment indicators fell
3 significantly in 2016, with a number of PRWs falling by more
4 than 18 percent.

5 The Commission collected financial data in two
6 different formats, total market operations and open market
7 operations, that is excluding internal consumption and
8 transfers to related companies. In both cases, the
9 industry's financial indicators fell significantly. The
10 industry reported declines in gross profit, operating
11 profit, net profit and cash flow.

12 Indicators considered by the Commission, such
13 as gross operating and net profit as a percent of sales fell
14 sharply. The industry experienced a cost-price squeeze.
15 While spot prices have increased steadily since the filing
16 of the petition, press reports attribute these increases to
17 this proceeding.

18 While the data collected by the Commission
19 show clear evidence of continued injury to the domestic
20 industry following filing of the petition, the petition was
21 filed in the first quarter of 2017 after negotiations for
22 2017 business had already occurred. If relief is not
23 granted, injury is likely to continue, and it is hard to say
24 how long the industry can continue to operate under such
25 conditions.

1 That concludes my testimony, and I'd be happy
2 to answer any questions.

3 MR. KRAMER: That concludes our presentation.

4 VICE CHAIRMAN JOHANSON: Thank you for your
5 presentation. We will now commence Commissioner questions,
6 and we will begin with Commissioner Broadbent.

7 COMMISSIONER BROADBENT: Good morning. Thank
8 you for participating today. I had some just general
9 overview questions on Globe's strategy and its interaction
10 with Dow. Can you tell me about the history of Globe's --
11 of Globe as a U.S. company, its acquisition of Globe
12 Specialty Metals in 2006, and the growth of the Globe
13 Specialty Metals over time, and then the merger with
14 FerroAtlantica to form Ferroglobe?

15 MR. KRAMER: Yeah. I'm not sure exactly what
16 information is of interest to you, but Globe was created or
17 brought back to life by having, being brought out of
18 bankruptcy following import injury, and Globe then acquired
19 a couple of other domestic producers. You know, Globe
20 Specialty Metals is a domestic company that owns both of the
21 -- both the Globe Metallurgical operations and the majority
22 interest in the joint venture with Dow Corning.

23 At the end of 2015, Globe Specialty Metals
24 merged with FerroAtlantica, which is a producer based in
25 Spain, that also has operations in South Africa and France,

1 silicon metal production. So that at that point, there was
2 created a global company which is a large western producer,
3 not large in relation to the massive production capacity in
4 China.

5 And so it's a producer that can now supply
6 customers in a number of countries in different parts of the
7 world.

8 COMMISSIONER BROADBENT: Okay.

9 MR. KRAMER: Does that respond to your
10 question?

11 COMMISSIONER BROADBENT: Yeah. No, that's
12 very helpful. That's kind of a big overview, and then sort
13 of what happened to the operations related to the production
14 of this product through all of those mergers? I mean what
15 was the impact on production levels and so forth?

16 MR. KRAMER: What -- mainly a lot was invested
17 in improving the facilities and making them highly efficient
18 and competitive, and there was no, no capacity was shut down
19 during the formation of the larger company. You know,
20 efforts to extend best practices to all of the plants, and
21 there also is some vertical integration.

22 There is a quartz manufacturing mining
23 operation in Alabama that supplies high purity quartz to the
24 facilities, and there's a coal mining operation that
25 supplies very high purity metallurgical coal to Globe's

1 operations. So there was -- they also worked to improve the
2 quality of the operations through vertical integration being
3 to control their own, the quality of their own raw
4 materials.

5 COMMISSIONER BROADBENT: Okay.

6 MR. SCHAEFERMEIER: If I -- can I just add one
7 point? I apologize.

8 COMMISSIONER BROADBENT: Sure.

9 MR. SCHAEFERMEIER: It may be of interest --

10 COMMISSIONER BROADBENT: Just identify
11 yourself for the record.

12 MR. SCHAEFERMEIER: Martin Schaefermeier. My
13 apologies again for interrupting you. Globe acquired the
14 alloy plant from the Elkem Company. It was formerly
15 operated by Elkem, and it had been in declining condition,
16 and Globe invested a significant amount to bring that
17 facility up to par.

18 COMMISSIONER BROADBENT: Okay, and then how
19 does Globe interact with Ferroglobe's various affiliates
20 around the world?

21 MR. KRAMER: You know, for the most part Globe
22 operates as a domestic producer. The Globe Specialty Metals
23 owns the Canadian operation, you know, the most of the --
24 that operation, in terms of Globe's sales, almost entirely
25 supplies Canadian customers. The imports from Canada are

1 Dow Corning imports from that facility, in which they're
2 also a joint venture partner, a minority owner, and there's
3 --

4 I mean there's a management structure
5 obviously on a global basis. It's now a subsidiary and
6 actually management decisions. There is involvement of a
7 global company, but I'm not sure beyond that. The
8 operations in the United States are not, as I understand it
9 and the witnesses, other witnesses can speak to it, have not
10 changed as a consequence of the fact that it's now part of
11 a global operation.

12 COMMISSIONER BROADBENT: Okay. Well, I guess
13 the Respondents are kind of making the case that you've
14 pursued a series of trade remedy cases in Canada and Europe,
15 in addition to this one here in the U.S.

16 MR. KRAMER: Well, Ferroglobe, the parent.
17 Well, the Canadian subsidiary of Globe Specialty Metals, you
18 know, did pursue a case in which the imports were found to
19 be dumped and subsidized. You know, there's a negative
20 final injury determination which has been appealed, and
21 there's a recent case brought by the European operations,
22 which has nothing to do with Globe Specialty Metals,
23 recently filed in Europe covering two countries, Bosnia,
24 which is not part of this case and Brazil.

25 COMMISSIONER BROADBENT: So you're filing

1 against the Brazilians in Europe, not you but Ferroglobe?

2 MR. KRAMER: Well no. The European operations
3 have filed against imports from Brazil and Bosnia in Europe.

4 COMMISSIONER BROADBENT: That's it like to be
5 pursuing a trade remedy case that's going to really
6 disaffect your joint venture partner? I mean you have
7 several joint ventures with Dow?

8 MR. KRAMER: Well, it's really not a situation
9 in which Globe has a choice whether to pursue trade relief.
10 I mean if you want that joint venture to continue to
11 operate, the parent company has to be economically viable.
12 If the company no longer exists, you know, however strongly
13 you feel about maintaining a good relationship with your
14 joint venture partner and your customer, that you have no
15 choice but to seek relief.

16 COMMISSIONER BROADBENT: Can you talk about
17 the joint venture?

18 MR. KRAMER: I assume that they're not happy
19 to have -- neither party is happy to be in a position in
20 which they're adverse to each other in the case.

21 COMMISSIONER BROADBENT: Yeah, I would
22 suspect. Can you explain the terms of the joint venture
23 with Dow, both in Elway, West Virginia and then in Quebec?
24 Are these joint ventures in which most decisions are made
25 jointly with Dow, or are these plants that Globe owns and

1 operates, but in which Dow just has the minority ownership
2 interest?

3 MR. KRAMER: I mean the details of the joint
4 venture arrangement are not public. I'd be happy to, you
5 know, fully respond to that in our post-hearing submission.

6 COMMISSIONER BROADBENT: Okay, all right. Can
7 Globe provide a U.S. producer questionnaire for the West
8 Virginia joint venture or otherwise provide detailed comment
9 on the accuracy of information concerning this joint venture
10 provided in Dow's U.S. producer questionnaire?

11 MR. KRAMER: I'm not sure I understood your
12 question. Globe submitted a questionnaire covering all of
13 its production operations, including in West Virginia.

14 COMMISSIONER BROADBENT: Oh you have?

15 MR. KRAMER: Yes, yeah.

16 COMMISSIONER BROADBENT: Okay. Not just for
17 the joint venture -- I guess they're missing some
18 information about the joint venture.

19 MR. KRAMER: I'm not aware of anything. I'd
20 be happy to provide whatever information the Commission
21 would like us to.

22 COMMISSIONER BROADBENT: I mean we have all
23 these, you know. We have to figure out related parties,
24 captive production, conditions of competition. It's pretty
25 detailed, and we need your participation.

1 MR. KRAMER: I'm not sure what information the
2 Commission lacks, but we'd be happy to -- if that's
3 identified, to provide it.

4 COMMISSIONER BROADBENT: Okay. Dow asserts
5 that Globe fold the Brazilian affiliate that Globe now
6 asserts is engaging in injurious pricing behavior. It's
7 just hard for us, I guess, to understand how you would sell
8 a plant and then file an unfair trade case against it?

9 MR. KRAMER: Well, if many years later the
10 product's being unfairly traded and you're being driven out
11 of business, I think you have a need to file such an action.

12 COMMISSIONER BROADBENT: Globe is -- is Globe
13 engaged in any downstream chemical polysilicon or aluminum
14 manufacturing that might compete with your downstream
15 purchasers?

16 MR. KRAMER: Globe did some developmental work
17 on a high purity form of metallurgical grade silicon metal.
18 That had never gone beyond the development stage. So the
19 answer is no, at this point there are no such downstream
20 operations.

21 COMMISSIONER BROADBENT: Okay. Did any of the
22 industry reps want to comment on any of that? Okay, all
23 right. Thank you very much.

24 VICE CHAIRMAN JOHANSON: I would like to
25 thank you all for appearing here today. I'm a little

1 unclear on Globe's overall position with regard to
2 Mississippi Silicon. The prehearing brief notes at page
3 five that Mississippi Silicon shares common ownership with
4 the producer Rima in Brazil, and Polymer Alloys, an importer
5 of Brazilian product. But your brief also states that
6 Mississippi Silicon should not be excluded from the
7 domestic industry, and you state this on page eight of your
8 brief.

9 On the other hand, numerous references in the
10 brief seem to request exclusion for certain data
11 considerations. For example, on page 17 the brief talks
12 about Mississippi Silicon facing different circumstances
13 than Globe. Page 18 then refers to data industry "without
14 the inclusion of Mississippi Silicon's data." Two sentences
15 on page 20 start "Excluding Mississippi Silicon's data," and
16 page 20 notes that "Including Mississippi Silicon in this
17 analysis skews the data in multiple ways."

18 Under what circumstances are allowed to pull
19 Mississippi Silicon's data out of the domestic industry data
20 set?

21 MS. LUTZ: Vice Chairman Johanson, this is
22 Jennifer Lutz with ECS. The point of those distinctions was
23 not that you shouldn't consider Mississippi Silicon part of
24 the industry, but that the circumstances of its start-up
25 mask the volume. It, you know, production capacity and

1 shipments increased. And you see that sometimes in other
2 cases, where some producers will make a decision to lower
3 their prices to keep volume, and others will lose volume to
4 keep their prices higher.

5 This is simply showing that while we don't
6 think that the increasing volume trends indicate that the
7 domestic industry is not injured once you look at the
8 financial data, we just wanted to point out that especially
9 with respect to Globe, it has suffered volume injury, it has
10 reduced employment. It has reduced capacity, and we didn't
11 want that to be lost in the aggregate data.

12 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz.
13 How can the inclusion of Mississippi Silicon's data ever be
14 considered to skew the domestic industry's data, as noted at
15 page 20 of your brief? Isn't its performance part of the
16 domestic industry as a whole?

17 MS. LUTZ: This is Jennifer Lutz again. It is
18 part of the domestic industry as a whole. Our position is
19 that you should not take these increasing volume trends as
20 sign of health of the industry, and the reason that -- my
21 guess is if Mississippi Silicon had known what would happen
22 to prices, it would not have planned to start when it did.

23 But it's a plant in startup. It needs to get
24 up to full production. So that increase in volumes and
25 production and capacity is not a sign of health of the

1 domestic industry.

2 VICE CHAIRMAN JOHANSON: Thanks, Ms. Lutz.
3 How can the entry of Mississippi Silicon into the domestic
4 industry mask, and that's mask is a word that you use in
5 your brief at page 38. How can it mask injury to the
6 domestic industry, as Globe has argued? Are we supposed to
7 ask ourselves whether but for Mississippi Silicon's entry
8 the industry would have been injured? Does this suggest
9 that Mississippi Silicon's entry, that with Mississippi
10 Silicon's entry the industry as a whole was not injured?

11 MS. LUTZ: I do not think that that is the
12 case. Clearly from the financial data collected by the
13 Commission, the industry is not healthy. In general, the
14 addition of capacity to an industry may be seen as a sign of
15 strength of the industry. But that decision to add capacity
16 as made at a time before prices fell so sharply.

17 VICE CHAIRMAN JOHANSON: Thanks. How do you
18 respond to the Respondents' argument that any loss in
19 Globe's merchant market share during the Period of
20 Investigation was due to the entrance of Mississippi Silicon
21 rather than subject imports, and this can be seen at page 83
22 of Wacker Simcoa's brief?

23 MS. LUTZ: There have been a lot of claims in
24 the briefs about the entrance of Mississippi Silicon, and
25 how basically Globe and Mississippi Silicon were competing

1 and driving prices down.

2 That does not explain a number of factors.
3 First, the underselling data in which underselling margins
4 by the subject imports increased in 2016, as Mississippi
5 Silicon ramped up its production, and you have a significant
6 volume of lost sales and lost revenues that don't say oh, we
7 stopped buying from Globe because we bought from Mississippi
8 Silicon. They say we bought subject imports because they
9 were less expensive than domestic product.

10 VICE CHAIRMAN JOHANSON: Respondents also
11 refer to aggressive pricing by Mississippi Silicon at
12 Globe's expense, and this is at page 83 of the Wacker Simcoa
13 brief and the Elkem brief at page four, and the Dow Corning
14 brief at page 47. To what extent has industry competition
15 with Mississippi Silicon impacted prices and Globe's
16 performance?

17 MS. LUTZ: Again, the record shows that
18 subject imports continue to undersell the domestic industry
19 in 2016, and at increasing margins over prior years. Could
20 Mississippi Silicon be responsible for some portion of the
21 price decline in the market? Yes, but subject imports do
22 not need to be the only source of injury for the Commission
23 to make an affirmative determination, and the record
24 evidence shows clearly that they are a large cause of
25 injury to the domestic industry.

1 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz.
2 Petitioner has highlighted that subject imports increased by
3 volume and market share from 2015 to 2016, the year in which
4 it says that the domestic industry was most severely hurt,
5 as you all note at page one of your brief. But did not the
6 domestic industry's production and market share increase
7 from 2015 to 2016?

8 MS. LUTZ: Yes it did, and that was due to the
9 startup of Mississippi Silicon, which again the decision to
10 build the plant and sell into the U.S. market was made well
11 before the decline in prices.

12 VICE CHAIRMAN JOHANSON: So where in this
13 part of the Period of Investigation is the volume-based
14 injury caused by subject imports that Petitioner alleges?

15 MS. LUTZ: In 2016, Globe shut down a plant.
16 That is -- they consider that to be volume injury, and there
17 are -- there's a considerable volume of lost sales,
18 confirmed lost sales showing that the subject imports took
19 sales away from the domestic industry because of lower
20 prices. They also gained market share at the expense of
21 non-subject imports as well.

22 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz.
23 If Petitioner is alleging post-petition effects, how do you
24 explain the increase in subject imports by volume and market
25 share interim 2017 compared to interim 2016, as show in the

1 C table? Where are any post-petition effects if the volume
2 indicia are going up?

3 MR. KRAMER: As Mr. Perkins explained, in this
4 industry there's a mating season in the fourth quarter of
5 the year preceding the year in which merchandise is
6 delivered. So the sales during 2017 reflect conditions in
7 the market in fourth quarter '16. So both the volume and
8 pricing reflect those conditions.

9 VICE CHAIRMAN JOHANSON: Okay, and talking
10 about 2017, Respondents note that prices rebounded in 2017,
11 but they take the position that this price rebound had
12 nothing to do with the initiation of the anti-dumping
13 countervailing duty case, because prices had been increasing
14 for five months at the time the case was initiated, and this
15 is discussed at page 55 of the Wacker Simcoa brief. Do you
16 agree that prices started to increase before the petition's
17 filing?

18 MS. LUTZ: Prices had, spot prices had started
19 to increase before the petition was filed, but they were
20 still at very low, very depressed prices. The pace of
21 increase in prices increased after the filing of the
22 petition, after the Commission's preliminary determination.
23 They continued to increase after preliminary Department of
24 Commerce determinations, and there are numerous press
25 articles that cite the case as the reason for the

1 improvement in prices in the U.S. market.

2 VICE CHAIRMAN JOHANSON: Okay. Thank you,
3 Ms. Lutz. The yellow light's on, so I'm going to stop
4 there. Commissioner Williamson.

5 COMMISSIONER WILLIAMSON: Okay, thank you Mr.
6 Chairman, and too I express my appreciation to the witnesses
7 for coming today and presenting your testimony. I'm going
8 to continue along the line that Vice Chairman Johanson, and
9 the price trends and the Petitioner's gave in their
10 submission this morning charts showing how U.S. prices have
11 followed similar line as domestic -- as global prices. I
12 guess that gets to the question of if that's the case, how
13 -- why would it be that the imports that the cause of the
14 pricing changes here?

15 MS. LUTZ: I think the Commission has seen a
16 number of cases where certainly published spot -- I mean
17 prices follow trends, global trends. You see that in the
18 steel industry, you see that in the paper industry. It's
19 not uncommon. But just the -- and in general it has to do
20 with supply and demand.

21 Well, increasing supply to the U.S. market at
22 a time when demand is lower and selling at low prices just
23 because global prices have fallen doesn't mean that it
24 doesn't injure the domestic industry. They're still selling
25 at dumped and subsidized prices. So the global prices,

1 while they provide some evidence as to why prices, that
2 prices are falling elsewhere, it does not mean that subject
3 import sales do not affect the domestic industry.

4 COMMISSIONER WILLIAMSON: Well here we are
5 particularly challenged in trying to sort out the impact of
6 the imports from the global trends, and in that case with
7 that in mind, what relevance does the determination made by
8 the CIDT in Canada about the ^^^^ when they gave the
9 negative determining in saying that and pointing to global
10 price trends as being important there?

11 MS. GATELY: Mary Gately. Mr. Commissioner, a
12 simple answer is it involves a different regulatory scheme
13 and different facts, and we can cover this more extensively
14 in our post-hearing brief but --

15 COMMISSIONER WILLIAMSON: You know, because
16 what I've found in international meetings is a lot of times
17 the Canadians, at least in this area, think a lot like we
18 do.

19 MS. GATELY: Well, I mean it's a different --
20 first, there are different facts. There were only two end
21 users in Canada. It's a much smaller market. No
22 polysilicon use. The Canadian price index, they don't have
23 a separate index. It's tied to U.S. prices, and it's not
24 sold in the same way. In the United States, as the
25 Commission has heard, it's very price sensitive and it's

1 sold differently in Canada.

2 That case is also under appeal, as Mr. Kramer
3 noted. So you have different countries involved, different
4 producers involved, different end users. So you have
5 different facts and a different, frankly a different
6 regulatory system.

7 COMMISSIONER WILLIAMSON: Okay. Post-hearing
8 if you could --

9 MR. KRAMER: Sure.

10 COMMISSIONER WILLIAMSON: Mr. Kramer, go ahead.

11 MS. GATELY: No, go ahead.

12 MR. KRAMER: I mean I just wanted to add one
13 point, which is the Canadian -- one element in the Canadian
14 tribunal decision was its finding that prices in Canada were
15 based on U.S. benchmark prices. So they found the same
16 price declines. So we are talking about in the United
17 States, you know, we're causing what was happening in
18 Canada, and that basis found lack of causation as one basis.

19 So I mean it's the same -- it's the same
20 decline in benchmark prices that we're talking about here
21 that they found was a reason not to find causation, U.S.
22 prices.

23 COMMISSIONER WILLIAMSON: Okay. So have to
24 figure out whether the imports were the causation -- U.S.

25 MR. KRAMER: Right.

1 COMMISSIONER WILLIAMSON: So post-hearing, I
2 would appreciate it or, you know, explain all the situation
3 in Canada. The elements that you point to should lead us to
4 reach a different conclusion.

5 MR. KRAMER: Very happy to do that.

6 COMMISSIONER WILLIAMSON: Good. By the way,
7 who filed -- was Ferroglobe the complainant in the EU
8 petition?

9 MR. KRAMER: Ferroglobe is the global parent
10 company.

11 COMMISSIONER WILLIAMSON: Yeah.

12 MR. KRAMER: And it's the -- in the United
13 States, it's the U.S. Company that filed the case. In
14 Canada, it's the Canadian producer that filed the case,
15 which is owned by Globe Specialty Metals.

16 COMMISSIONER WILLIAMSON: So who filed it in
17 the EU? Is there a similar relationship?

18 MR. KRAMER: It's the -- I'm not sure the
19 exact entity, but it would be the European subsidiary.

20 COMMISSIONER WILLIAMSON: Is there a related
21 party -- is it a related entity of the Ferroglobe conglomerate?

22 MR. KRAMER: Yes, yes. These are parts of
23 Ferroglobe.

24 COMMISSIONER WILLIAMSON: Okay. That's what I
25 was asking.

1 MR. KRAMER: Yes.

2 COMMISSIONER WILLIAMSON: Were there any
3 non-Ferroglobe complainants in that by the way?

4 MR. KRAMER: Well, in Canada the --

5 COMMISSIONER WILLIAMSON: I mean in the EU.

6 MR. KRAMER: In the EU? I think there are
7 only -- I believe there are only two producers in the EU,
8 and the other producer is a related party. We can spell
9 that out more fully in the post-hearing.

10 COMMISSIONER WILLIAMSON: Okay, thank you. I
11 was just wondering about that.

12 MR. KRAMER: Sure, sure.

13 COMMISSIONER WILLIAMSON: Let's see.
14 Commissioner Broadbent had asked about Ferroglobal's
15 operation and their market strategy, and I was particularly
16 wondering how does Ferroglobal utilize imports from its
17 non-U.S. affiliates in the U.S. market? Some of it may have
18 to be post-hearing but ^^^^

19 (Pause.)

20 MR. KRAMER: I mean there are, you know, many
21 of the imports in 2016 were product from South Africa that
22 was sold by FerroAtlantica before FerroGlobe existed, okay.
23 So that's really a flow that predates the --

24 COMMISSIONER WILLIAMSON: You said 2016.

25 MR. KRAMER: '16 right, because they're --

1 COMMISSIONER WILLIAMSON: Now when was the
2 merger again?

3 MR. KRAMER: The end of '15. But sales are
4 made in the end of '15 for '16.

5 COMMISSIONER WILLIAMSON: Yeah, okay.

6 MR. KRAMER: And you know, the market has been
7 so depressed that, you know, there have been only a small
8 volume of imports from sources other than the subject
9 imports, you know, since then.

10 COMMISSIONER WILLIAMSON: Okay, sorry.

11 (Pause.)

12 COMMISSIONER WILLIAMSON: Yeah. Mr. Perkins,
13 can you help us clarify this?

14 MR. PERKINS: Yes sir. At the end of 2015
15 before the merger, FerroAtlantica had an entity here in the
16 U.S. that was selling their product out of South Africa. So
17 they had committed, you know, to volumes to bring into the
18 U.S. in 2016. We honored those commitments, but that was --
19 I think those numbers you'll see severely curtailed from
20 years before.

21 And then throughout '16 as the market
22 declined, they started shutting down capacity even in South
23 Africa. So you know, our strategy is we want to sell U.S.
24 product to U.S. customers. That's our number one goal at
25 this point. It's not to bring in material from other

1 locations. We want to sell domestically produced product to
2 domestic customers.

3 COMMISSIONER WILLIAMSON: Okay.

4 MR. KRAMER: And that commitment is reflected
5 in the fact that the company has invested in restarting the
6 U.S. operations.

7 COMMISSIONER WILLIAMSON: Okay, yeah. Thank
8 you for that clarification. Maybe post-hearing, the
9 Respondents have made some allegations regarding the
10 subject, if you can address those. Thank you.

11 Post-hearing also, I think Commissioner
12 Broadbent had asked some questions about the impact of
13 Mississippi Silicon and their entry into the U.S. market,
14 and I mean Ms. Lutz acknowledged that that entry could have
15 had some impact on the price in the U.S. market and all.
16 But you sort of said it's really more the imports.

17 So post-hearing, maybe you can go -- give a
18 little bit more weight -- how much weight should be given to
19 each of those factors, and that's something you may want to
20 think about and address post-hearing.

21 Mr. Williams, I was just wondering whether or
22 not the plants in D.C. Alabama and Mississippi Silicon, are
23 they also unionized, either with your union or other unions?

24 MR. WILLIAMS: Not that I know of.

25 COMMISSIONER WILLIAMSON: Okay.

1 MR. SCHAEFERMEIER: Martin Schaefermeier for
2 Petitioner. We looked at that information and we looked at
3 and I think it was a Department of Labor report that said I
4 think in the third quarter or fourth quarter of -- I believe
5 it was the third quarter of 2017 at that point, DC Alabama
6 was not unionized. There was no union there.

7 COMMISSIONER WILLIAMSON: Okay, and what about
8 Mississippi Silicon?

9 MR. SCHAEFERMEIER: We did not look at
10 Mississippi Silicon. I'm sorry. I just don't know.

11 COMMISSIONER WILLIAMSON: Okay. No, I was just
12 wondering. I realize with the shutdown for a year that it's
13 really been very difficult for the workers. I was just
14 wondering, is there anything that the unions and the company
15 have done to try to keep or make Globe more competitive in
16 this market?

17 MR. WILLIAMS: I mean -- well I mean we came
18 back ^^^^ oh, Antonio Williams. They came back and they
19 invested into the plant and training and other stuff to get
20 us back where we was.

21 COMMISSIONER WILLIAMSON: Okay, thank you.

22 MR. HUCK: Duane Huck, one further comment.
23 As we've done over the years, any time there's training
24 needs amongst the Globe plants, we share those resources to
25 help support, you know, a plant such as Selma coming back

1 online, to make them, you know, efficient right off the bat.
2 Especially if you don't get all the workers back that were
3 laid off originally, there's additional training that's
4 required.

5 So we send qualified trained resources from
6 the other plants. We also invested, you know, capital money
7 to make the plant operate efficiently at a highly, a high
8 utilization rate, to maximize capacity. So those are things
9 that we do.

10 COMMISSIONER WILLIAMSON: Okay. Thank you for
11 those answers. My time has expired.

12 VICE CHAIRMAN JOHANSON: Commissioner
13 Broadbent.

14 COMMISSIONER BROADBENT: Yeah. Mr. Williams,
15 thanks for being here. It means a lot to have you here.
16 How has the change in the ownership a couple of times since
17 2006 affected the operations at the Selma plant, from your
18 perspective?

19 MR. WILLIAMS: Antonio Williams. Since we
20 came back, you know, you could see a lot of improvements
21 with equipment and other stuff that -- some of the stuff we
22 didn't have, and getting everybody back to work and we hired
23 some more men than what we had since we came back.

24 COMMISSIONER BROADBENT: So it's been -- it's
25 been basically positive and upward improvements?

1 MR. WILLIAMS: Yes.

2 COMMISSIONER BROADBENT: Okay. I had some
3 questions about this domestic supply coming online, probably
4 for the two industry witnesses from Global, I mean yeah,
5 from Globe. I'd like to understand the role of other U.S.
6 producers in this market. When Mississippi Silicon decided
7 to enter the U.S. market as a producer, was there
8 insufficient supply in the U.S. market?

9 MS. LUTZ: For as long as I've been working on
10 silicon metal cases, the domestic industry has never been
11 able to supply 100 percent of demand. However, there have
12 always been adequate -- more than adequate import supplies
13 to make up for any shortfall.

14 COMMISSIONER BROADBENT: Can you discuss the
15 reasons why the company Hightest is planning to start
16 production of silicon metal in Newport, Washington, given
17 current market conditions in the U.S. silicon metal markets?
18 Probably Mr. Perkins, I think.

19 MR. PERKINS: No, ma'am, I don't know.

20 COMMISSIONER BROADBENT: Did you have any views
21 on that Mr. Huck? Okay. What advantages might Hightest
22 have in starting production the Pacific Northwest, if you
23 had to speculate?

24 MR. PERKINS: I don't know, maybe other than
25 power rate. It would be a guess. I just don't know.

1 COMMISSIONER BROADBENT: Yes. I mean they're
2 seeing opportunity in this market, no doubt, not the dire
3 conditions you're portraying.

4 MR. KRAMER: I mean I think it's fair to assume
5 that they are aware not only of current conditions, but of
6 the fact that effort is being made to obtain relief you know
7 to address the collapse in prices that occurred.

8 COMMISSIONER BROADBENT: Has anybody from Globe
9 talked to them?

10 MR. KRAMER: I have no knowledge.

11 MR. PERKINS: I spoke to one gentleman this
12 morning, but no, as far as substantive discussion, no ma'am.

13 COMMISSIONER BROADBENT: Okay, thank you. How
14 do you respond to joint Respondents' argument on page 53 of
15 their brief that Ferroglobe responded pretty aggressively to
16 thwart Mississippi Silicon's entry into the U.S. market? I
17 think they mounted an environmental challenge and then there
18 were some other tactics that were bracketed on page 54.

19 MR. KRAMER: Not Ferroglobe, but a party
20 affiliated with Globe filed an environmental action
21 challenging the approval of the construction of the plant,
22 which Globe believed was -- you know did not follow proper
23 procedures and whether there was political influence on the
24 authorization. And Globe continues to think that the claims
25 filed had merit, the District Court found against Globe.

1 The case has been appealed to the United States Court of
2 Appeals.

3 COMMISSIONER BROADBENT: What were the
4 allegations? What criteria didn't the construction meet?

5 MR. KRAMER: I'm not sure I'm going to give you
6 or remember the precise details. I'd be happy to put in the
7 post-hearing brief, but it concerned such things as notice
8 and comment and giving interested parties a fair opportunity
9 to put evidence into the record to comment on studies
10 regarding the impact of emissions from the plant. You know
11 whether it followed proper procedure under state law and
12 federal law and so that goes -- following proper procedures
13 and taking into account evidence with respect the
14 environmental impact of the facility.

15 COMMISSIONER BROADBENT: Okay. I mean it seems
16 like you're pretty aggressive all the way around in a lot of
17 different arenas against the competition.

18 MR. KRAMER: I will agree with you that if the
19 company is confronted with unfairly traded imports it has
20 acted to --

21 COMMISSIONER BROADBENT: But I mean using
22 different avenues to go against the same competition.

23 MR. KRAMER: Well, I will agree that they filed
24 a lawsuit, which they believe is well founded concerning
25 whether the environmental impact of that plant was properly

1 -- a proper opportunity was provided to evaluate that.

2 COMMISSIONER BROADBENT: Okay.

3 MR. KRAMER: But I don't agree with the
4 wide-ranging characterization that they were not properly
5 addressing the -- the new company.

6 COMMISSIONER BROADBENT: Okay. Well, there's
7 some other tactics I think that are discussed there. I
8 think are bracketed on page 54, so if you could just address
9 the totality of your efforts to deal with the competition
10 here.

11 MR. KRAMER: We'd be happy to address the
12 allegations.

13 COMMISSIONER BROADBENT: That'd be great. Thank
14 you.

15 Mr. Kramer, within your impact analysis, you
16 frequently perform an analysis with and without Mississippi
17 Silicon and we've been discussing that. Just to summarize,
18 and maybe Ms. Lutz, you could say it once more just so I get
19 my arms around it, why is the industry's performance
20 relevant without Mississippi included, given that we have to
21 look at the industry as a whole.

22 MS. LUTZ: As I stated earlier, the Commission
23 often sees industries where when faced with unfairly traded
24 imports producers have to respond either by lowering prices
25 or by losing sales. And in cases where you have both of

1 these factors going on with respect to different companies,
2 it can mask some of the trends. So for example, if you were
3 -- and the Commission doesn't do this, but if you were just
4 to look at the volume trends you might say, well, this
5 industry is doing great. But while these factors look
6 positive, there are reasons that they are positive dealing
7 with timing issues, but that the totality of the record
8 shows that the domestic industry is pretty severely injured
9 by the subject imports.

10 COMMISSIONER BROADBENT: Okay. And then what
11 affect do you think the entry of Mississippi Silicon had on
12 U.S. prices?

13 MS. LUTZ: There are some confidential data that
14 I'd be glad to discuss in the brief, but I think that from
15 our discussions with Globe when they were competing in the
16 market they were finding competition against subject
17 imports. They weren't finding the same level of competition
18 against Mississippi Silicon. There is also a confirmed loss
19 revenues allegations, but again, there's some confidential
20 information that we'd be glad to discuss post-hearing.

21 COMMISSIONER BROADBENT: Okay. I didn't get
22 what you were saying. You can put it in a brief, I guess.
23 Okay.

24 Why do you think Mississippi Silicon has decided
25 not to participate in the petition or provide briefs in this

1 investigation?

2 MR. KRAMER: Mississippi Silicon is owned by a
3 Brazilian producer that is subject to investigation and so I
4 can't speak for them, but they have an interest as a
5 domestic producer and then they're also subject to the case.
6 So in those circumstances, they haven't participated in this
7 part of the process. The Commission did visit their
8 facility and has obtained information, both to the
9 questionnaire process and in that visit bearing on the
10 merits of the case.

11 COMMISSIONER BROADBENT: Okay.

12 MR. SCHAEFERMEIR: I'd like particularly to
13 point the Commission to very pertinent statements in the --
14 by Mississippi Silicon in the verification notes and the
15 plan verification notes. Yes, I'm sorry; it was the plant
16 visit actually.

17 COMMISSIONER BROADBENT: Point the Commission to
18 comments at the plant visit?

19 MR. SCHAEFERMEIR: The record reflects the
20 Commission's notes, the staff's notes of the plant visit to
21 Mississippi Silicon.

22 COMMISSIONER BROADBENT: Right.

23 MR. SCHAEFERMEIR: And when you read those notes
24 are very relevant statements to your question right now with
25 respect to -- I don't want to go further just to protect the

1 proprietary information and we can identify it and even
2 quote those notes -- the staff's notes from the plant visit.

3 COMMISSIONER BROADBENT: Okay.

4 MR. SCHAEFERMEIR: Again, I don't what to --
5 they were statements by Mississippi Silicon itself very
6 relevant to your question.

7 COMMISSIONER BROADBENT: Okay, thank you very
8 much.

9 VICE-CHAIRMAN JOHANSON: Respondents take the
10 position that at its core this case is about Ferroglobe's
11 efforts to reinforce its control of the U.S. silicon market,
12 and this can be seen at page 7 of the Wacker/Simcoa brief.
13 How do you all respond to this allegation?

14 MR. KRAMER: I think the most direct response is
15 that if Ferroglobe controlled the U.S. market we would not
16 have seen the conditions and the results of -- they wouldn't
17 have seen the downturn in terms of the severe price decline
18 and we wouldn't have seen the severe adverse impact of that
19 on its operations. And in truth, they don't control the
20 market. It's a highly competitive market as we've described
21 in our testimony. You know there is no global power that
22 some how controls things in the U.S. or has the ability to
23 do that.

24 MS. LUTZ: I think it's one of many
25 contradictions in Respondents' arguments in their briefs

1 where you're supposed to accept that Globe, Ferroglobe now
2 controls so much of the market that they control prices.
3 Well, the merger took place in late 2015 and in 2016 prices
4 fell very low. But also, nobody has control over the market
5 because it's global prices. Well, which is it? Is it we're
6 all following global price trends? Ferroglobe is ruling
7 the market and controlling these prices? I suspect that if
8 Ferroglobe were controlling the prices, prices would not
9 have fallen so low in 2016.

10 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz and
11 Mr. Kramer.

12 How do you respond to the testimony at the
13 conference from Wacker Silicon North America official, which
14 Respondents highlighted in their brief that "Ferroglobe
15 failed to timely supply the contracted amount and repeatedly
16 pushed us to consider other supplies, including specifically
17 Mississippi Silicon and Simcoa in Australia," and this is at
18 page 58 of the Wacker/Simcoa brief.

19 MR. KRAMER: We don't have a witness here that
20 has direct knowledge, but we'd be very happy to respond in
21 full to that in the post-hearing.

22 VICE CHAIRMAN JOHANSON: Okay, thank you, Mr.
23 Kramer.

24 And I have a similar question to the one I just
25 posed. Respondents refer in their brief to purchasers'

1 declarations alleging multiple problems experienced by
2 Ferroglobe's customers, including missing delivery windows,
3 supplying substandard product, and abandoning aluminum
4 producers when higher margin contract sales in the chemical
5 sector became available, and this is seen at page 11 of the
6 Wacker/Simcoa brief. Is there a reliability issue with
7 Ferroglobe's products and services?

8 MR. PERKINS: No, sir, not to my knowledge. I
9 would like to see the factual basis behind that.

10 VICE CHAIRMAN JOHANSON: Okay, thanks, Mr.
11 Perkins.

12 Respondents have made arguments that several of
13 Globe's key inputs are not in line with the same costs
14 reported by the other two U.S. producers, and you can see
15 this at page 10 of the Wacker/Simcoa brief. How does Globe
16 respond and/or what facts explain this pattern?

17 MS. LUTZ: I suspect we will have to address
18 this, at least, in part, in the post-hearing brief because
19 it deals with confidential information. But certainly, a
20 lot has publicly been said about the coal prices. Globe
21 does source coal from a related party. It records that in
22 its books at transfer prices, which are part of the audit
23 when they are in their annual audits and the auditors have
24 signed off on it.

25 In general, when the Commission is faced with

1 arguments regarding -- asked to compare domestic producers
2 in terms of their cost structure the Commission generally
3 says we take the industry as we find it. In fact, I think
4 that comment was made earlier when we were discussing the
5 Mississippi Silicon -- some of our calculations excluding
6 them. And I think this is a case where you take the
7 industry as you find it, but I think their arguments are
8 without merits and we will address it further in the
9 post-hearing brief.

10 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz.

11 When imports are internally consumed by a
12 vertically integrated supply chain and never sold on the
13 merchant market is there a price effect of these subject
14 imports on merchant market silicon metal prices?

15 MS. LUTZ: There certainly can be, especially,
16 in the case of Dow Corning, which, as they said they're the
17 largest consumer of silicon metal. I believe that's what
18 they said. They internally consume and they purchase on the
19 open market. Every pound that they internally consume is a
20 pound that they do not buy on the open market. And to the
21 extent that they're benefiting from subsidies and are below
22 costs sale or dumped sales that affects their other
23 suppliers.

24 Furthermore, the companies that compete with
25 them -- so Dow Corning is gaining the advantages of

1 subsidies and dumped imports. Well, their competitors in
2 the silicones and polysilicon market presumably face a lot
3 of pressure in competing with them and will demand lower
4 prices as well. So yes, I think the internal consumption is
5 relevant and does affect the domestic market.

6 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz.

7 I now have two questions regarding threat. How
8 do you square the construction of the new Mississippi
9 Silicon plant in 2015, the first built in the United States
10 since the 1970s, and the new silicon metal production
11 facility in Washington State proposed during the period of
12 investigation with conditions in the U.S. market that
13 threaten material injury by subject imports? Do these
14 investments and plans demonstrate confidence that marketing
15 conditions are favorable for growth and profitability in the
16 U.S. silicon metal industry at this time?

17 MS. LUTZ: In general, I think that we've
18 certainly placed much more emphasis on current material
19 injury in this case based on the performance of the domestic
20 industry.

21 With respect to the addition of Mississippi
22 Silicon, as we've said, they made their decision to enter
23 the market and started building their plant at a time when
24 prices were high. And while prices have improved since the
25 filing of the petition, we expect that if a negative

1 determination is made prices will fall right back down again
2 as subject imports feel free to do whatever they want in the
3 U.S. market. That Mississippi Silicon will have a very hard
4 time operating in the U.S. market.

5 With respect to the new plant being considered,
6 I'm not sure we've looked at that all that much, but it
7 still seems that it is in a fairly theoretical stage.

8 MR. KRAMER: Over the years there have been many
9 reports of parties considering investment in new facilities
10 and Mississippi Silicon is an exception in that actually
11 came to fruition, so I think that not too much weight should
12 be placed on initial reports about possible construction or
13 an additional plant.

14 VICE CHAIRMAN JOHANSON: Okay, thank you Mr.
15 Kramer and Ms. Lutz.

16 And I have a one more question regarding threat.
17 Dow Corning has argued that Rema, the Brazilian producer,
18 plans to replace all of its imports of silicon metal from
19 Brazil to the U.S. market with domestically-produced silicon
20 metal from its new facility in Mississippi. This is at page
21 50 to 51 of Dow Corning brief. How does the stated exits
22 from the U.S. market of Rema's Brazilian-produced silicon
23 metal imports support finding a potential threat of material
24 injury as regards Brazil?

25 MS. LUTZ: I think there are some proprietary

1 data that we would need to address in the post-hearing
2 brief, but Rema is one of four, five suppliers in Brazil, so
3 they certainly aren't the only party that can threaten to
4 harm the domestic industry.

5 VICE CHAIRMAN JOHANSON: Okay, thank you, Ms.
6 Lutz. My time is about to expire. Commissioner Williamson.

7 COMMISSIONER WILLIAMSON: Thank you,
8 Vice-Chairman.

9 So kind of related to that prior question, Dow
10 has argued that subject imports that are consumed by
11 affiliates to make downstream products cannot be causes of
12 injury and I wanted you to respond to that. I think you
13 already said a few things on that.

14 MS. LUTZ: Right. As I said before, Dow Corning
15 is also the largest purchaser of silicon metal and every
16 pound that they consume internally is a pound that they are
17 not purchasing on the open market and benefiting from
18 subsidies and dumped product presumably causes them to put
19 pressure on their other supplies. And at a level of
20 competition among silicones and polysilicon producers, if
21 one party is benefiting from dumped and subsidized imports,
22 that places pressures on the other producers of these
23 downstream products to lower their costs in order to
24 compete.

25 COMMISSIONER WILLIAMSON: Okay, thank you.

1 Is it your position that the captive production
2 provisions apply in this case? I don't think you
3 specifically stated it, so I wondered?

4 MR. SCHAEFERMEIR: We don't believe that the
5 captive production provision applies because of the case law
6 interpretation of the term "internal transfers."

7 COMMISSIONER WILLIAMSON: Do you want to
8 elaborate or do you want to do that post-hearing?

9 MR. SCHAEFERMEIR: Internal transfers, as we
10 read the case law, refers to transfers within the same legal
11 entity and because that doesn't exist in this case we are
12 not arguing for application of the captive production
13 provision.

14 COMMISSIONER WILLIAMSON: Okay. Thank you.
15 What have been the major trends in silicon metal
16 consumption in the United States during the past five years?
17 Which end use sectors and applications have increased or
18 decreased the most and why?

19 MR. PERKINS: I think over the last five years
20 it's been relatively flat. I think automotive production
21 has been relatively flat. The other sectors, once again, I
22 think is relatively flat.

23 COMMISSIONER WILLIAMSON: Any shift among
24 consuming sectors?

25 MR. PERKINS: Not of the top of my head that I

1 can think of any.

2 COMMISSIONER WILLIAMSON: What about going
3 forward? I mean we keep hearing about more aluminum in the
4 auto industry.

5 MR. PERKINS: Well, once again, I think the
6 automotive industry is looking relatively flat and I think
7 that most of the projections for 2018 mirror pretty much the
8 2017 level.

9 COMMISSIONER WILLIAMSON: Okay.

10 MR. PERKINS: Yes, sir, I think that would be
11 for all sectors. I was looking at silicon metal in
12 aggregate.

13 COMMISSIONER WILLIAMSON: Okay. Nothing
14 exciting in the future, nothing hopeful for the future.

15 MS. LUTZ: I would also add that there have been
16 a number of trade actions involving aluminum products
17 recently and I suppose that could affect U.S. production of
18 aluminum and therefore consumption of silicon metal in that
19 production.

20 COMMISSIONER WILLIAMSON: Okay, thank you.

21 What are the differences in the specifications
22 of silicon metal required by producers of chemicals versus
23 producers of polysilicon?

24 MR. PERKINS: If you look at the basic silicon
25 metal composition -- here's some right here -- the

1 differences are very, very -- I won't say minor, but they're
2 very nuanced. I mean the difference in one -- like one
3 sector would want .5 max iron and another sector it might be
4 a .6 max iron and another one a little lower of .25, so the
5 differences between the sectors are very small, the same
6 thing with calcium.

7 Obviously, if you are selling silicon metal to
8 an aluminum operation they're not worried about the aluminum
9 content in it, but to a silicon chemical manufacturer he may
10 be looking at aluminum. But even at that level, you're .4
11 or .5, something like that. It's a very, very small change
12 within the specifications between the various sectors.

13 COMMISSIONER WILLIAMSON: What about the
14 differences in comparative size of U.S. consumption of
15 silicon metal and between the polysilicon and the chemicals
16 sector?

17 MR. PERKINS: I'm not sure I understood the
18 question, sir.

19 COMMISSIONER WILLIAMSON: Well, with the demand
20 how is it allocated between polysilicon and chemicals?

21 MR. PERKINS: You're talking about the relative
22 size of the market?

23 COMMISSIONER WILLIAMSON: Yes, exactly.

24 MR. PERKINS: Silicon's is much, much larger
25 than the polysilicon industry.

1 COMMISSIONER WILLIAMSON: Okay. And going
2 forward, it's probably going to stay that way?

3 MR. PERKINS: Yes, sir.

4 COMMISSIONER WILLIAMSON: Okay. Can you explain
5 the differences in the production processes for silicon and
6 ferrosilicon and how do you determine which product is made
7 at a plant and explain the process for switching over?

8 MR. HUCK: Well, the main differences in silicon
9 you're trying to keep iron contamination out of the process
10 and make as high a content of silicon product as possible.
11 With ferrosilicon you actually add iron units to the process
12 to obtain a certain level of iron content in the metal.

13 Concerning changing over from one product to the
14 other there is some proprietary information in doing that,
15 but Globe has been able to do that successfully over the
16 years.

17 COMMISSIONER WILLIAMSON: Okay. And maybe
18 post-hearing you can --

19 MR. HUCK: Well, I think there was a question
20 about which are going to produce. I think Globe we have
21 proven or our financials have proven over the years that
22 Globe performance is better when we're making silicon metal
23 on every furnace that we can make silicon metal on. When we
24 get to situations that we've seen over the last few years
25 rather than shut down a furnace could we possibly make

1 ferrosilicon profitably? That's another discussion, but
2 long term we would prefer to make silicon metal on every
3 furnace that we can produce silicon metal on.

4 COMMISSIONER WILLIAMSON: Okay.

5 MR. HUCK: I might add the other factor in the
6 two products, ferrosilicon and silicon, is the raw material
7 selection and the vertical integration that Globe has is
8 geared toward silicon metal production.

9 COMMISSIONER WILLIAMSON: Okay. And
10 post-hearing maybe you can address whether or not Globe has
11 made switches during the period of investigation from
12 silicon to ferrosilicon.

13 Can you discuss the closing and idling of Globe
14 facilities during the period of investigation and whether
15 these were related to subject imports or to other factors?

16 MR. KRAMER: As reflected in our briefs, the
17 extremely low levels to which prices were driven in the U.S.
18 market forced Globe to reduce capacity and so that is the
19 primary reason for those reductions. In one case, which is
20 the Niagara Falls plant, there also was a strike at a major
21 customer served by that plant. So at that furnace there
22 were two factors that resulted in the shutdown.

23 COMMISSIONER WILLIAMSON: Okay. If there are
24 any other details regarding factors that you want to address
25 post-hearing it'll be helpful.

1 MR. KRAMER: Sure.

2 COMMISSIONER WILLIAMSON: Okay. This may have
3 already been asked, but has Globe been able to meet its
4 contractual commitments toward customers during the period
5 of investigation and have there been periods when it has not
6 and can you explain the circumstances?

7 MR. PERKINS: To my knowledge, we've met
8 shipping schedules, contractual arrangements. That question
9 from Commissioner Johanson a minute ago really caught me by
10 surprise. I don't know of any that we've missed.

11 COMMISSIONER WILLIAMSON: Okay.

12 MR. PERKINS: That's a surprising allegation to
13 me.

14 COMMISSIONER WILLIAMSON: Okay. Okay, thank
15 you.

16 VICE CHAIRMAN JOHANSON: Commissioner Broadbent.

17 COMMISSIONER BROADBENT: Sure.

18 Mr. Kramer, can you discuss the extent to which
19 trade conflict with China, particularly the Chinese decision
20 to impose trade remedies on U.S. polysilicon producers has
21 affected growth in production of U.S. polysilicon and demand
22 for the silicon metal?

23 MR. KRAMER: I don't think I'm really the person
24 to speak to that. Could you restate the question for us?

25 COMMISSIONER BROADBENT: Sure. Can you discuss

1 the extent to which trade conflict with China, particularly
2 the Chinese decision to impose trade remedies on U.S.
3 polysilicon producers has affected growth and production of
4 U.S. polysilicon and demand for silicon?

5 MR. PERKINS: We do have a major customer that
6 has been curtailed in the amount, basically solar silicon
7 that they are producing because of that conflict.

8 COMMISSIONER BROADBENT: Okay. And so what
9 effect has that had on demand in the U.S. market?

10 MR. PERKINS: Well, it's lessened it to some
11 degree.

12 COMMISSIONER BROADBENT: Yeah. And then, have
13 there been cutbacks in U.S. production as a result of that
14 conflict?

15 MR. PERKINS: In the production of polysilicon?

16 COMMISSIONER BROADBENT: Yes.

17 MR. PERKINS: Yes, ma'am, I think so.

18 MS. LUTZ: I suspect that the afternoon panel
19 will be better positioned to answer that question.

20 COMMISSIONER BROADBENT: Right. I just wanted
21 your perspective on it. That would be helpful.

22 MR. SCHAEFERMEIER: One additional point, Martin
23 Schaefermeier. During the same time, there was also a start
24 of a Wacker facility in Tennessee. So whatever impact there
25 may have been, with respect to one customer, was offset by

1 the new facility established in Tennessee by Wacker.

2 COMMISSIONER BROADBENT: Okay. This is for Mr.
3 Perkins. You stated that you do not see purchasers
4 requiring certain boron contents in your silicon metal
5 sales, but you also stated that for those customers seeking
6 maximum boron content, Globe was able to meet their needs.
7 I'm just trying to get a clarification out -- which is it?
8 Did they ask for particular boron contents or not?

9 MR. PERKINS: For those that have given us a
10 specification where a line item is boron, yes, ma'am, we can
11 hit that specification. We always have. We have not
12 received a specification and told that customer we can't
13 meet that. That has never happened.

14 COMMISSIONER BROADBENT: Okay, but certain
15 customers do say they need maximum boron content?

16 MR. PERKINS: Yes, ma'am, there are
17 specifications. But most of those fall around 40ppm, parts
18 per million. And I think the Commission questionnaire was
19 talking about 20 parts per million. I've never seen a spec
20 requesting that low of boron and, you know, I just haven't
21 seen it.

22 COMMISSIONER BROADBENT: In your production, how
23 do you control the different levels of boron content?

24 MR. HUCK: Duane Huck here. We know, as Mr.
25 Kramer mentioned, we had done some R&D work in the past and

1 so we know through raw material selection and different
2 processing, we can affect the boron levels.

3 MR. KRAMER: I think it's very important to
4 understand -- may I add to his answer?

5 COMMISSIONER BROADBENT: Mm-hmm.

6 MR. KRAMER: I think it's very important to
7 understand the part of the testimony to explain that, for a
8 large portion of the period, simply through, as a function
9 of the process Globe was using in its day-to-day
10 manufacturing, the inputs it was using, it was producing
11 very low boron content material.

12 In fact, material meeting this 20 parts per
13 million level, which is not a commercial standard, and the
14 way we know that is because, for customers that have a
15 maximum boron level, Globe tests the boron content. And it
16 uniformly was finding that it was finding 20 parts per
17 million, meeting the 20 parts per million threshold, so it's
18 not that --

19 I mean, in order to consistently do that, Globe
20 would have to be conscious of the raw materials and the
21 process. But it was doing that simply in its normal process
22 through much of the period.

23 COMMISSIONER BROADBENT: Okay.

24 MR. SCHAEFERMEIER: Martin Schaefermeier with
25 one additional point. I think it's important to understand

1 that boron is only of relevance to the very small section of
2 the market that consumes silicon metal in producing
3 polysilicon. That's a minority share of the market. All
4 other customers' silicons, primary and secondary aluminum,
5 do not care and do not specify the boron content. And as
6 Mr. Perkins testified, low lost sales, particularly in the
7 primary and secondary aluminum segments, where boron just
8 doesn't make a difference.

9 COMMISSIONER BROADBENT: Okay, great. Thank
10 you. Mr. Perkins, what are the primary imports used in the
11 production of silicon metal? And where do they come from?

12 MR. PERKINS: I'm sorry, would you repeat that,
13 please?

14 COMMISSIONER BROADBENT: Sure. What are the
15 primary inputs used in production of silicon metal and where
16 do they come from?

17 MR. PERKINS: Maybe Mr. Huck. But it's -- yeah,
18 I believe I covered this in my statement, but it's quartz
19 sourced out of Alabama, North Carolina. It's low-ash coal
20 sourced out of Kentucky mainly. Charcoal and wood chips, in
21 some cases, metallurgical coke. Those are the main inputs.

22 COMMISSIONER BROADBENT: Okay. And then, what's
23 been the price trend of those primary raw material inputs
24 over the past five years?

25 MR. HUCK: It's not something I've looked at

1 real closely. But I think they've been relatively flat.

2 MR. KRAMER: Our questionnaire responded to that
3 issue, and I think the answer given was that, in for some
4 inputs, it went up and some it went down, but on an overall
5 basis, it was relatively flat.

6 COMMISSIONER BROADBENT: Okay. Good, yeah, I
7 think if you supplied that for the post-hearing, that'd be
8 helpful. Ms. Lutz, when imports are internally consumed by
9 vertically integrated supply chain and never sold on the
10 merchant market, is there a price effect of the subject
11 imports on merchant market silicon metal prices?

12 MS. LUTZ: There certainly can be. The main
13 example of this internal consumption and vertical
14 integration is Dow Corning, which is also the largest
15 purchaser -- they claim they are the largest purchaser of
16 silicon metal. They do consume some internally, but they
17 also purchase a lot on the open market. Every pound that
18 they do internally consume, they do not buy, and benefiting
19 from subsidies and dumped product, presumably causes them to
20 put pressure on other supplies to reduce their prices.

21 COMMISSIONER BROADBENT: Okay. I think I'll
22 conclude my questions at that point. Thank you very much.

23 VICE CHAIRMAN JOHANSON: Respondents have argued
24 that the Commission should not exclude Dow Corning from the
25 domestic industry as a related party. They contend that Dow

1 Corning is a significant U.S. producer, that it does not
2 import silicon metal from Brazil to benefit from dumping or
3 subsidization, that the inclusion of this data does not skew
4 the financial data for the industry and that the firm's
5 primary interest is in domestic production rather than in
6 importation. And they argue this at Pages 6 to 16 of the
7 Dow brief. Should we include Dow Corning in the domestic
8 industry under the circumstances presented on this final
9 record?

10 MR. KRAMER: No, you should not. Dow Corning
11 should be excluded from the domestic industry. Under the
12 Commission's criteria, it would be properly excluded when
13 you look at the relationship between its imports and its
14 domestic production, it's very clear that Dow Corning is
15 predominantly a consumer and an importer, not predominantly
16 a producer. And despite their disclaimers, they do in fact
17 benefit and choose to benefit from subsidies and unfair
18 pricing.

19 VICE CHAIRMAN JOHANSON: Okay, thank you, Mr.
20 Kramer. Ms. Lutz?

21 MS. LUTZ: I would just add that, while we have
22 certainly made the argument that it should be excluded as
23 the Commission did in its preliminary determination, from an
24 injury point of view, there are still clear declines in the
25 condition of the domestic industry.

1 And the Commission collected data on both
2 open-market operations and total-market operations. So you
3 can see the differences in results, including and excluding
4 this captive consumption.

5 VICE CHAIRMAN JOHANSON: Thank you, Ms. Lutz.
6 Respondents have argued that Globe was the price leader
7 throughout the period of investigation and increased its
8 pricing power with the merger creating Ferroglobe and this
9 is argued in the Dow Corning brief at Page 25. Could y'all
10 please respond?

11 MS. LUTZ: I can start with saying that the
12 merger took place in late 2015, so presumably Globe was
13 exercising this enormous market power in 2016 when prices
14 from about \$1.10 to \$.86 a pound. So I do not think that,
15 if Globe had such power that it would have used that power
16 to cause prices to decline.

17 VICE CHAIRMAN JOHANSON: Thanks, Ms. Lutz.
18 Respondents claim that rather than fulfilling robust demand
19 in the secondary aluminum market, the U.S. industry has made
20 a business decision to focus on the polysilicon and
21 chemicals market. This is argued on Page 41 of the Wacker
22 Simcoa brief. Do you all agree? And to what extent does
23 the industry compete in all parts of the market and facing
24 competition in the various parts of the market?

25 MR. PERKINS: We supply all sectors of the

1 market. I think right now we're probably holding more
2 inventory than we would like to and if we could sell it, we
3 would sell it. I mean, we sell to the polysilicon industry.
4 We sell to the chemical industry. We sell to the primary
5 and to the secondary aluminum industry. And large volumes
6 in all of them.

7 MS. LUTZ: So the Commission has done a number
8 of investigations on silicon metal. And what it has found
9 since the very first investigation in 1990 was that, as new
10 suppliers, particularly imports, come into the market, they
11 tend to penetrate the secondary aluminum market first,
12 because it has the most lenient specs and the shortest
13 qualification times.

14 So as subject imports increase in volume, they
15 took over a larger share of that segment, pushing the
16 domestic industry out. If Globe wanted to maintain share in
17 that market, it would've had to lower its prices even
18 further, which is -- their prices have already been pushed
19 low enough.

20 MR. PERKINS: Yes, and most of the production
21 out of the Selma, Alabama, operation was destined for the
22 secondary industry. So as Ms. Lutz was pointing out, as we
23 were under greater and greater threat from the subject
24 imports, unfortunately, Selma, Alabama was the most
25 vulnerable plant at that point.

1 MR. KRAMER: I just want to clarify that Mr.
2 Perkins used the word threat, but the record shows that
3 Globe was being aggressively undersold in those sectors
4 during that period, which resulted in not being able to
5 continue to supply material from that facility.

6 VICE CHAIRMAN JOHANSON: Okay, thank you, Mr.
7 Kramer. Thanks to all the witnesses today. That concludes
8 my questions. Commissioner Williamson?

9 COMMISSIONER WILLIAMSON: Thank you. Just a
10 couple of questions. Wacker argues that U.S. prices
11 began--and actually you've touched on this before, but I
12 just wanna make sure I understand your answer--Wacker argues
13 that U.S. prices began to rebound five months before this
14 case was filed, so on Page 55 of their brief. Can you
15 comment on this?

16 MS. LUTZ: Spot prices had begun to rebound
17 somewhat prior to the filing of the case, but they were
18 still at extremely low depressed prices. And in fact, and
19 are reflected in the 2017 results for the domestic industry,
20 that while prices had started to improve, they were still
21 very low.

22 COMMISSIONER WILLIAMSON: Okay.

23 MS. LUTZ: And the continuing improvement is
24 largely attributable to this case. And that's not our
25 opinion -- well, it is our opinion, but it's also reflected

1 in many of the industry press articles that we have read.

2 COMMISSIONER WILLIAMSON: Okay. What may have
3 contributed to the improvement in the period five months
4 before the petition was filed? Are there other underlying
5 trends that also are present?

6 MS. LUTZ: Published prices fell below \$.86 a
7 pound when earlier in the POI they had been significantly
8 higher. I suspect that more and more suppliers to the
9 market just didn't wanna supply at that price. And causing
10 prices to start to increase.

11 COMMISSIONER WILLIAMSON: Okay, thank you.
12 Anything you could add post-hearing that the relationship --
13 we're doing a lot of trying to see how much of this, how
14 much of that was this after -- thank you. My last question.
15 In post-hearing, please discuss any prior Commission
16 determinations that address subject imports captively
17 consumed by an importer. How do we deal with this issue?

18 MS. LUTZ: Are you referring to captive
19 consumption of imports? Or -- because we have captive
20 consumption with respect to domestic production, too, so I
21 just wanted to make sure I understand what you're asking.

22 COMMISSIONER WILLIAMSON: Yes, imports.

23 MS. LUTZ: Imports. Okay.

24 COMMISSIONER WILLIAMSON: Okay. Thank you. I
25 have no further questions.

1 VICE CHAIRMAN JOHANSON: Commissioner Broadbent?

2 COMMISSIONER BROADBENT: Yeah, this is just for
3 Globe. I think most of this you can put on the record.
4 Beginning on Page 76 of their pre-hearing brief, joint
5 respondents placed your financial performance in 2016 in the
6 context of four events or decisions by Globe.

7 During that year, 2016, they state that Globe
8 decided to pay the outgoing executive chairman a large sum,
9 as whatever, golden parachute, I guess they call it -- they
10 state that the idling of Globe's Niagara, New York, facility
11 was related to an event independent of subject import
12 competition.

13 They make assertions with respect to Globe's raw
14 material sourcing strategy. And finally, they assert that
15 Globe is itself to blame for behavior in the U.S. market,
16 given its market dominance. So please respond to these
17 assertions, either here or in your post-hearing brief.

18 MR. KRAMER: We'd be happy to respond
19 comprehensively. I'd like to point out that the payment
20 that you're referring to, you know, was a severance payment
21 by the global company to the global executive chairman.
22 That was not a payment by the U.S. company, is not reflected
23 in its financial performance, is not reflected in the data
24 reported to the Commission, and the Commission has verified
25 that fact.

1 COMMISSIONER BROADBENT: Okay. Good. I thank
2 all the witnesses for coming.

3 VICE CHAIRMAN JOHANSON: Thank you again for
4 your testimony. Do staff have any questions for this panel?

5 MS. MESSER: Mary Messer, Office of
6 Investigations. No, staff has no questions.

7 VICE CHAIRMAN JOHANSON: Do respondents have any
8 questions for this panel?

9 MR. STOEL: Respondents have no questions.

10 VICE CHAIRMAN JOHANSON: Okay. Thank you. With
11 that, we will take a break for lunch until 1:15. I would
12 like to remind staff and parties not to leave any
13 confidential business information in this room as it is not
14 secure. And we will see you back here at 1:15. Thank you.

15 (Whereupon a lunch recess was taken to reconvene
16 at 1:15 this same day.)

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1 A F T E R N O O N S E S S I O N

2 MR. BISHOP: Will the room please come to order?

3 VICE CHAIRMAN JOHANSON: Welcome back to this
4 hearing. You all may proceed.

5 STATEMENT OF BONNIE BYERS

6 MS. BYERS: Good afternoon. My name is Bonnie
7 Byers and I'm a consultant at King & Spalding representing
8 Dow Silicones. Before turning to our witnesses, I will
9 provide a brief summary of what you will be hearing this
10 afternoon.

11 Let me begin by saying what this case is not
12 about. This is not a case about material injury or
13 remedying material injury. The record clearly shows that
14 there isn't any. The petitioner filed this case for one
15 reason, to implement the global strategy of its U.K.-owned
16 and Spanish-controlled parent company.

17 The strategy has involved coordinated actions to
18 prevent the opening of a new U.S. producer, segmenting the
19 market which its affiliate -- into which its affiliates can,
20 sell, exercising its price leadership through price
21 signaling at public conferences and targeting trade actions
22 at countries where it does not have production.

23 They've done that to restrict imports that are
24 necessary to supply the significant excess demand in the
25 U.S. market and are also needed to meet technical

1 specifications for U.S. manufacturing of polysilicon.

2 In November of last year, Canada's CITT soundly
3 rejected Globe's Canadian trade action, finding first that
4 silicon metal is not a fungible commodity that trades
5 principally on the basis of price.

6 To the contrary, the CITT concluded that silicon
7 metal is treating purchasers more like a capital good than a
8 commodity. The CITT also rejected the claim that subject
9 imports cause price declines, notwithstanding evidence of
10 underselling.

11 Instead, the CITT concluded that any injury
12 suffered by petitioner was "due to unrelated factors
13 including the global pricing down turn, Ferroglobe's
14 strategic decision with respect to imports from non-subject
15 affiliates, and the petitioner's high raw material costs.

16 The Commission should reach the same result
17 here, not because the CITT made these factual findings, but
18 because the ample record evidence before you compels the
19 same result.

20 The witnesses you're about to hear from
21 represent decades of experience in the U.S. and global
22 silicon metal markets. You will hear from purchasers in the
23 polysilicon segment, in the chemical segment, and in the
24 aluminum segment, as well as foreign producers and
25 importers. Their collective testimony will flatly dispel

1 the notion that silicon metal competes principally on the
2 basis of price. Supply security, quality, and reliability
3 count for far more than price in this industry.

4 You will also hear from our economist, Dr. Prusa
5 that this is not a volume case as the domestic industry
6 successfully maintained its market share during the POI.
7 You will also hear that the decline in U.S. silicon metal
8 prices during 2016 was very short-lived.

9 Importantly, the evidence shows that the decline
10 in 2016 pricing principally reflected global pricing trends
11 itself caused by a temporary imbalance in global supply and
12 demand.

13 It was not caused by local import competition.
14 In fact, to the extent that local competition had any
15 significant impact on domestic prices, it was there
16 emergence of Mississippi Silicon and Globe's aggressive
17 efforts to thwart that company's entry into the market.

18 Now let me turn it over to our industry
19 witnesses.

20 STATEMENT OF AGUSTIN ARGIBAY

21 MR. ARGIBAY: Good afternoon. My name is
22 Agustin Garcia Argibay, and I am a global business director
23 at Dow Silicone Corporation. Dow Silicones until recently
24 known as Dow Corning Corporation, is a U.S. corporation and
25 a wholly-owned subsidiary of the Dow Chemical Company.

1 I have worked for the Dow Chemical Company for
2 18 years. In my current position, I am responsible for the
3 management of the strategy feedstocks, basics and
4 intermediate products at Dow Silicones. I have spent my
5 entire career in the chemical industry.

6 As the Commission is aware, Dow is a champion
7 for the revitalization of American manufacturing and the
8 country's highly skilled force -- highly skilled work force.
9 Dow works tirelessly on behalf of its over 24,000 U.S.
10 workers to build supply chains that make the U.S. production
11 the most competitive in the world.

12 We also support free and fair trade and the
13 strong enforcement of U.S. trade laws. Unfortunately, this
14 case is not about protecting U.S. domestic industry from an
15 unfair trade, but this case is entirely about the dominant
16 global producer of silicon metal seeking to tighten its
17 control over the U.S. market at the expense of the U.S.
18 interest.

19 Ferroglobe, the U.K. owner of the petitioner,
20 has orchestrated its commercial operations to fit its
21 publicly-declared commercial strategy of using trade cases
22 like this to exclude from the U.S. market any source of
23 supply that we do not control.

24 Despite high levels of imports, Ferroglobe
25 excluded South Africa, France, and Spain from all of its

1 trade cases. And now these Ferroglobe facilities are primed
2 and ready to fill the substantial excess demand in the U.S.
3 market and capitalize on Ferroglobe's exclusionary behavior.

4 To implement its strategy, Ferroglobe as engaged
5 in highly unusual and inexplicable commercial behavior,
6 which the Canadian international trade tribunal called
7 self-injury. For example, according to its CEO, Ferroglobe
8 idle facilities will lower costs. It also segmented the
9 markets where their affiliates are allowed to sell and
10 manipulate their cost in a shellgame to hide profits with
11 their affiliated suppliers.

12 Other indicators of their intent include the
13 petitioner's concerted activities to undermine and prevent
14 new U.S. production in Mississippi. These highly aggressive
15 and self-serving actions continue with the filing of another
16 anti-dumping case in Europe in late 2017.

17 I urge you to look at, you know, closely at the
18 data and arguments that the petitioner has made and consider
19 all of the testimony today. The record in this case simply
20 does not support a finding that imports are costing or
21 threatening injury to the domestic industry.

22 We consider that the law, the facts, and the
23 critical interests of our U.S. manufacturing and American
24 workforce compel the Commission to issue a negative
25 determination. Thank you.

1 STATEMENT OF CRAIG S. BROWN

2 MR. BROWN: Thank you. My name is Craig Brown
3 and I am the product director for strategic feedstocks at
4 Dow Silicones. I have worked for Dow for nearly 30 years.
5 In my current position, I am responsible for the supply of
6 strategic raw materials, including silicon metal. Today, I
7 want to provide you to additional background on Dow's
8 operations, and then address the issues of domestic --

9 MR. BISHOP: Craig?

10 MR. BROWN: Yes.

11 MR. BISHOP: I need you to talk directly into
12 the mike as your --

13 MR. BROWN: Okay.

14 MR. BISHOP: -- face is down. It's not picking
15 up.

16 MR. BROWN: Okay. Sorry, is that better?

17 MR. BISHOP: Perfect, thank you.

18 MR. BROWN: All right. First, let's see, I was
19 on the conditions of competition, volume, price, impacted
20 threat. Is that better?

21 MR. BISHOP: Yes, great, thank you.

22 MR. BROWN: Okay. First, Dow Silicones is the
23 largest U.S. and global consumer of silicon metal. Dow
24 Silicones refine silicon metal at major facilities in
25 Michigan and Kentucky to make intermediates used in the

1 production of over 3,000 products at numerous further
2 manufacturing sites in Michigan, Kentucky, Indiana, and
3 North Carolina.

4 The products we manufacture at this sites
5 include advanced silicones that are further manufactured
6 into products for virtually every industry, including
7 automotive, beauty, health care, textiles, and many others.

8 These silicones are the building blocks of the
9 majority of what we all use and consume every day. Our
10 products also generate over \$1.2 billion annually in U.S.
11 exports. We have brought samples, which you can see on the
12 exhibit table in front of you of products forming our value
13 chain from silicon metal, to silicon fluids, to examples of
14 the final consumer products.

15 Much of the success today of our company can be
16 attributed to the thousands of skilled and loyal employees.
17 Dow Silicones has 625 United Steel Worker employees at our
18 facility in Midland, Michigan and their 193 USW employees at
19 our joint venture facility in Alloy, West Virginia.

20 Dow Silicone's affiliate Hemlock Semiconductor
21 also relies on silicon metal as a starting point for its
22 U.S. manufacturing of high purity polysilicon, which is a
23 critical input into the production of solar panels and
24 semiconductors.

25 High quality polysilicon requires high purity,

1 low boron silicon metal, which we source from our wholly
2 owned facilities in Brazil. U.S. producers do not produce
3 low boron silicon metal. As you already from the recent
4 solar Section 201 proceeding, the U.S. polysilicon industry
5 is already highly vulnerable as a result of ongoing trade
6 conflicts with China that caused Hemlock to make significant
7 layoffs and permanently close and demolish its brand new
8 state-of-the-art \$1.2 billion facility in Tennessee even
9 before the facility started operations.

10 The imposition of duties on critical silicon
11 metal supply that is unavailable from U.S. sources will only
12 accelerate the harm to the U.S. polysilicon sector and its
13 highly skilled manufacturing jobs.

14 In order to ensure the security and reliability
15 of supply, and the necessary technical specifications, Dow
16 Silicone sources its silicon metal from a variety of
17 suppliers, its wholly owned U.S. silicon metal producer, DC
18 Alabama, and its U.S. and Canadian joint ventures with
19 Globe. We also purchased from Globe and the other U.S.
20 producer Mississippi Silicon. And we source from our two
21 affiliated facilities in Brazil, one of which we purchased
22 from Globe in 2009.

23 More importantly, we consume 100 percent of our
24 imports from both Canada and Brazil. None of Dow's imports
25 of silicon metal enter the U.S. merchant market.

1 Second, Dow is an American company. And as an
2 American company, the Commission should not exclude DC
3 Alabama's subsidiary from the domestic industry as a related
4 party. The record in this case demonstrates that the
5 interest of our company lie primarily in domestic production
6 rather than in the importation of subject silicon metal.

7 We have production at both our DC Alabama
8 facility and in our joint venture with Globe in West
9 Virginia, which should be considered together in order to
10 assess whether imports exceed our domestic production.

11 Moreover, to improve the reliability of supply,
12 Dow Silicone switched from buying imports from Globe's South
13 African affiliate to buy domestic production from
14 Mississippi Silicon to support its new U.S. facility. We do
15 not import from Brazil to benefit from dumping or
16 subsidization, but to source specific high purity silicon
17 metal that we cannot source domestically as well as
18 maintain diversity of supply for our downstream production
19 facilities. When the Commission analyzes our interests in
20 domestic production, we ask that you consider both our own
21 production and our purchases from U.S. manufacturers.

22 Third, the Commission evaluate the unique
23 conditions of competition in this industry when considering
24 the impact of subject imports on the domestic industry. I
25 will make five points on this topic.

1 Point A, domestic production and capacity in the
2 United States is unable to satisfy total U.S. demand which
3 necessitates imports. Globe does not deny this.

4 Point B, the entry of Mississippi Silicon in the
5 market had a significant downward impact on prices. Globe
6 tried very hard to prevent Mississippi Silicon from coming
7 online. And when they finally did, the resulting price war
8 between the two caused domestic prices to fall. As your
9 staff report confirms, Globe was the price leader in the
10 U.S. market throughout the period of investigation. Our
11 brief provides several examples of this price leadership,
12 including clear price signaling to the market by Globe.

13 Point D, the downstream producers are very
14 concerned with ensuring the stability and reliability of
15 supply. Globe has often proven itself to be an unreliable
16 source of supply and for this reason purchasers put a
17 premium on ensuring a diversity of supply.

18 Point E, the market for silicon metal is
19 cyclical. Demand began to fall in 2015, hit a low in 2016,
20 and began to recover in 2017. Prices are widely forecasted
21 to continue their recovery into 2018 and beyond.

22 Fourth, in terms of the condition of the
23 domestic industry, in Dow's view, much of this can be
24 attributed to Dow's own pricing and input practices as
25 detailed confidentially in our brief. The Canadian dumping

1 authority, for example, examined the pricing practices of
2 Globe's U.K. parent Ferroglobe with respect to Globe's
3 purchases of a key input, coal, from another Ferroglobe
4 company Alding. The CITT concluded that Globe's overpriced
5 purchases of coal from Alding hurt Quebec Silicon's margins
6 and profits by forcing it to pay more for coal than it
7 otherwise could have sourced from an unrelated supplier.

8 Practices like these and others raised in our
9 brief highlight that Globe's poor financial condition is due
10 to its own business strategies.

11 Fifth, the Commission should not cumulate
12 imports from Brazil with other subject imports. Dow
13 Silicones accounts for a large portion of imports from
14 Brazil and all of these imports are consumed internally by
15 Dow Silicones to produce downstream intermediate products.
16 We do not participate in the merchant market. Thus
17 Brazilian silicon metal moves in a very different channel of
18 distribution from domestic product and other subject
19 imports.

20 There is also a limited degree of
21 interchangeability between Brazil Silicon metal and what is
22 produced by the domestic industry due to the low boron
23 content of Brazil Silicon metal. Low boron content metal is
24 a prerequisite of the production of high purity polysilicon
25 to meet the needs of Dow's polysilicon production.

1 Sixth, in terms of import volumes, imports from
2 Brazil are not injuring the domestic industry. Public data
3 demonstrates that imports from Brazil fell over the period
4 of investigation. This public data actually overstates
5 imports levels as they include imports from Dow's free trade
6 zones that are incorporated into exported products and thus
7 never enter the customs territory of the United States.

8 Seventh, imports from Brazil did not adversely
9 affect domestic prices during the period of investigation.
10 There is limited head to head competition between imports
11 from Brazil and domestic product due to product differences
12 and differing channels of distribution.

13 Moreover, the record demonstrates that there
14 were other factors at work that resulted in the observed
15 price declines, including declining demand, which has since
16 recovered, the entry of Mississippi Silicon into the market,
17 and the general decline in global prices which domestic
18 prices closely track.

19 Finally, Globe is not threatened with material
20 injury from subject imports from Brazil. This is not a
21 vulnerable industry. Demand is strong and growing. Prices
22 are on the rise and a brand new 60,000 ton per year
23 production facility should start construction soon in
24 Washington State.

25 Brazil is unlikely to increase exports to the

1 U.S. due to strong demand in other markets and due to Dow's
2 high operating rates. Rima has also announced that it will
3 switch supplying the U.S. market from its production at
4 Mississippi Silicon. Thank you.

5 STATEMENT OF MARY BETH HUDSON

6 MS. HUDSON: Good afternoon and thank you for
7 the opportunity to testify today. My name is Mary Beth
8 Hudson. I am the vice president of Wacker Polysilicon North
9 America and the site manager for Wacker's polysilicon
10 facility in Charleston, Tennessee.

11 Our Tennessee polysilicon facility began
12 production in 2016 and provided a \$2.5 billion commitment to
13 state-of-the-art high value added manufacturing here in the
14 United States. Our Tennessee facility employs nearly 700
15 workers who depend on WPNA's continued operations at this
16 site for their livelihoods. Our polysilicon operations
17 require a reliable supply of high quality polysilicon metal
18 -- I mean, silicon metal.

19 WPNA uses silicon metal as the see raw material
20 to produce a hyper pure polysilicon. Only specialized
21 silicon metal allows polysilicon to meet the demanding
22 specifications required to be used in applications like
23 solar panels.

24 We consume roughly 22,000 metric tons of silicon
25 metal per year at full capacity and we expect our

1 requirements to grow. We are building a new \$150 million
2 dollar pyrogenics silica plant in Charleston that will
3 require approximately 8,000 more metric tons of silicon
4 metal per year and will add another 50 high paying and high
5 skilled jobs to our Tennessee operations.

6 Globe has claimed that silicon metal in all
7 grades, regardless of the manufacturer, is entirely
8 interchangeable and thus competes only the basis of price.
9 This assertion does not reflect my experience in the market
10 place.

11 The quantity -- quality of silicon metal that we
12 need at WPNA is of a higher purity than other grades, such
13 as those used in secondary aluminum production. As I
14 described to the Commission last year, the level of
15 contaminants we can tolerate in our polysilicon is
16 equivalent to a single sugar packet dissolved in a body of
17 water two and a half times the Tidal Basin. The purity of
18 silicon metal drives the quality and purity of the finished
19 product.

20 Before price is even considered, our suppliers
21 must pass a rigorous three-step qualification process and
22 subsequent continuous monitoring without changes to
23 manufacturing location, process conditions, or raw
24 materials.

25 Another important factor is the supplier's

1 ability to provide a consistent and stable supply. Any
2 variance in the quality of the silicon metal or supply could
3 severely disrupt our manufacturing operations.

4 We prefer to buy our silicon metal from the
5 United States. Unfortunately, U.S. supply is well short of
6 U.S. demand, even with the addition of Mississippi Silicon
7 to the U.S. industry in 2015.

8 Imports are therefore an essential part of the
9 U.S. silicon metal market and having diversity of supply is
10 critical to our business. Both U.S. suppliers have dropped
11 the ball, including significant issues related to
12 qualification in meeting timely delivery requirements.
13 These issues have further increased our need to ensure
14 supply diversity.

15 Ferroglobe's facility in Beverly, Ohio initially
16 failed our qualification requirements due to high aluminum
17 content. Even after we overcame these qualification issues
18 and we initially contracted with Ferroglobe to supply 100
19 percent of our silicon metal demand during our critical ramp
20 up in 2016, Ferroglobe failed to fulfill our contracted
21 orders on time.

22 Ferroglobe's solution was to repeatedly push us
23 to consider other suppliers, including Simcoa.
24 Unfortunately, we have found that Ferroglobe is not as
25 committed to the U.S. polysilicon industry as we are to U.S.

1 manufacturing.

2 In a search for other suppliers, we reached out
3 to Mississippi Silicon, which also could not supply the
4 quantities meeting our requirements and failed the
5 qualification process due to deficiencies with physical
6 characteristics of their product. This forced us to abandon
7 its product and seek alternative suppliers.

8 And so despite Mississippi Silicon coming online
9 in late 2015, we are unable to purchase from them until
10 2017. Only as a last resort, we reached out to Simcoa to
11 diversify a portion of our supply to make up for the failure
12 by the U.S. industry to supply our needs. For these
13 reasons, we ask that the Commission make a negative
14 determination. Thank you.

15 STATEMENT OF OLIVER MAJUMDAR

16 MR. MAJUMDAR: Good afternoon and thank you for
17 the opportunity to testify today. My name is Oliver
18 Majumdar. I am the director of Raw Materials Procurement at
19 Wacker Chemie AG, WPNA's parent company in Germany, where
20 I've worked for 17 years.

21 As the director of raw materials procurement at
22 Wacker, I'm directly involved in all of Wacker Group's
23 purchases of silicon metal worldwide. As a result, I'm very
24 familiar with silicon metal production in the United States
25 and in other countries under investigation.

1 I have worked to qualify a number of the subject
2 suppliers involved in this case and to negotiate purchases
3 with them, including Ferroglobe.

4 I would like to briefly address three points for
5 you. First, silicon metal is not a commodity product.
6 Second, the Globe FerroAtlantica merger in 2015 made it even
7 more necessary to diversify supply. And third, the 2016
8 price decline for silicon metal is at the heart of this
9 investigation, was not specific to the United States market.
10 It was a temporary global event that has run its course.

11 To start, I would like to confirm the testimony
12 of my colleague Mary Beth that silicon metal is not a
13 fungible commodity. For example, WPNA cannot even use
14 silicon metal from the Wacker silicon metal production plant
15 in Norway. Our Norwegian high quality silicon metal has
16 specifications suitable for the production silicones, but
17 not polysilicon.

18 Similarly, we are unable to use silicon metal
19 from marginal suppliers such as they produce in Kazakhstan
20 because of quality concerns.

21 Maintaining a diverse supply became even more
22 challenging after the Ferroglobe merger in 2015. As WPNA
23 was preparing to come online in Tennessee in 2015, we
24 expected to have at least two established suppliers in Globe
25 and Ferro Atlantica. Due to the merger, we were left with a

1 sole supplier, Ferroglobe, which composed the majority of
2 the silicon metal production capacity in the United States
3 and Europe, the full production capacity in South Africa,
4 and half the Canadian capacity.

5 To make matters worse, Globe has a history of
6 switching to producing ferrosilicon. We cannot rely on a
7 single supplier, particularly Globe.

8 I would also like to share my perspective on the
9 short-term price declines experienced in the U.S. market
10 starting in late 2015. These price declines were not
11 isolated to the United States. Nearly identical price
12 declines occurred globally including Europe and Asia. As
13 widely confirmed by market research firms, demand for
14 silicon metal has generally experienced steady growth,
15 driven to a large degree by consistent growth in downstream
16 industries such as polysilicon and silicones.

17 However, the silicon metal is also subject to
18 global business cycles. In late 2015, global supply
19 temporarily exceeded global demand, placing downward
20 pressure on silicon metal prices worldwide. The United
21 States was not immune to these global developments.

22 The entry of Mississippi Silicon in late 2015
23 further depressed U.S. prices during this brief period. As
24 a purchaser of silicon metal, I witnessed firsthand price
25 competition between Ferroglobe and Mississippi Silicon in

1 the merchant market, resulting in even further reductions to
2 prices on the U.S. market.

3 Continued growth and demand, particularly in the
4 chemical and polysilicon segments soon absorbed the excess
5 supply. Silicon metal prices were fully recovered by the
6 end of 2016 and are continuing to increase. All projections
7 show increases in demand, supporting strong prices in 2018
8 and beyond. Thank you.

9 STATEMENT OF ERIC THALER

10 MR. THALER: Good afternoon, my name's Eric
11 Thaler. I'm a senior vice precedent at Momentive
12 Performance Materials, where I've worked for 18 years.
13 Momentive is a global manufacturer of silicones and employs
14 approximately 2400 people in the United States, including
15 over 700 IUECWA union members, who are dependent on our
16 ability to reliably source silicon metal

17 Momentive is the only silicones manufacturer in
18 the United States that is entirely rely on the merchant
19 market to source silicon metal.

20 I would like to make three points today. First,
21 Ferroglobe Is an uncertain supplier of silicon metal despite
22 being the dominant U.S. supplier, Ferroglobe regularly
23 communicates to the market its ability to switch between
24 Ferroglobe silicon and silicon metal. In 2013, Ferroglobe
25 even told the ITC in a different investigation that it could

1 produce Ferroglobe silicon at its plants in Niagara Falls
2 and so on.

3 It also produces Ferroglobe silicon at its --
4 and silicon metal at its Beverly plant, where it can switch
5 between base -- switch production based on market
6 conditions, making Ferroglobe an uncertain supplier.

7 Momentive cannot switch suppliers easily. Our
8 specifications are extremely tight and not interchangeable
9 with other chemical manufacturers. While the price may not
10 vary between different specifications within the chemical
11 sector, physical and chemical characteristics do.
12 Qualifying a supplier takes up to 12 months. Even
13 Mississippi Silicon is yet to qualify to supply Momentive.
14 Therefore in a market where a single U.S. manufacturer
15 dominates, diversification requires sourcing imported
16 silicon metal.

17 The second factor to consider is that import
18 competition did not impact Globe's closure during the POI.
19 While prices declined in 2016, that was due to a decline in
20 U.S. demand for silicon metal from the aluminum sector. And
21 during the crucial period from the fourth quarter of 2015 to
22 the first quarter of 2016, import prices remained stable,
23 yet it was during that period that Globe closed its Selma
24 plant. That closure was not due to import competition, but
25 to aluminum sector demand and new supply from Mississippi

1 Silicon.

2 Moreover because Momentive is Ferroglobe's
3 largest customer at its Niagara Falls plant, Ferroglobe
4 partially closed it in November of 2016 due a strike at
5 Momentive. Coincidentally, when Momentive restarted
6 operations in April of 2017, the Niagara plant reopened.
7 Therefore, Ferroglobe's financial condition has not been
8 impacted by import competition.

9 Finally, Momentive's ability to diversify its
10 sources of silicon metal is all the more difficult since the
11 creation of Ferroglobe. The combined company now accounts
12 for approximately 75 percent of the non-captive production
13 in the U.S. silicon metal market. Prior to that merger,
14 Momentive would have been able to negotiate separately with
15 Globe, as well as silicon metal plants in France, Spain, or
16 South Africa. Today, those plants are under -- all under
17 Ferroglobe Control. Ferroglobe has assigned a single sales
18 manager to negotiate our supply agreements regardless of
19 which plant supplies silicon.

20 We are no longer able to obtain competitive bids
21 from these plants separately. In light of these facts,
22 Momentive does not believe that an anti-dumping or
23 countervailing duty order is warranted. Thank you.

24 STATEMENT OF CHRISTOPHER BOWES

25 MR. BOWES: Good afternoon, my name is

1 Christopher Bowes and I am the director of investor
2 relations and global sourcing for REC Silicon. During my 15
3 years at REC, I've had principal responsibility for sourcing
4 silicon metal, including developing the corporate sourcing
5 strategy, developing new sources, maintaining existing
6 sources, and negotiating supply contracts.

7 REC is the leading producer of advanced silicon
8 materials supplying high purity polysilicon and silicon
9 gases to the solar and electronics industries worldwide. We
10 are the world's largest producer of -- gas and currently
11 employ over 530 people in or Washington and Montana
12 locations.

13 Access to global markets is important to us as
14 we export over 95 percent of our products. In addition, our
15 ability to compete globally and the fate of our U.S.
16 employees would be severely impaired if we were not able to
17 access global sources of silicon metal.

18 There are several important aspects of REC's
19 sourcing strategy that focus on factors other than price,
20 including the need to maintain multiple qualified silicon
21 metal suppliers to ensure security of supply. There's a
22 myriad of different factors that could adversely impact our
23 supply chain.

24 For example, we've seen port slowdowns and
25 strikes, floods and fires at processing facilities, and

1 domestic rail car shortages. Diversity of supply is thus
2 particularly important to maintaining a continuous supply of
3 silicon metal.

4 Before the merger of FerroAtlantica and Globe,
5 we purchased silicon metal from both of these companies.
6 Once the merger of these two companies took place, we made
7 the conscious decision to buy less from Ferroglobe than we
8 previously did from FerroAtlantica and Globe combined simply
9 because we viewed Ferroglobe as one source and we wanted to
10 maintained a diversified supply base.

11 It should also be recognized that the silicon
12 metal we purchase is a specialized high quality product.
13 This is not a commodity product. Indeed REC has a
14 qualification process that can take up to two years to
15 complete. And there are only a few sources in the world
16 that are qualified to supply REC.

17 And even with these qualified suppliers, there
18 are only specific plants that are qualified from each
19 supplier. In addition, our manufacturing process requires
20 ground or sized silicon otherwise referred to as powder.
21 But not every supplier of silicon metal has the capability
22 to grind silicon. Ferroglobe, for example, only has fine
23 sizing at one of its U.S.-based plants and that capacity is
24 limited.

25 Further, we're concerned about Ferroglobe's

1 desire to compete against polysilicon with their announced
2 upgraded metallurgical facility in Spain called FerroSolar.
3 In conclusion and recognizing that there are several
4 important factors other than price which influence our
5 silicon metal purchasing decisions, petitioner's injuries or
6 claims are without merit. Thank you.

7 STATEMENT OF MATT WILSON

8 MR. WILSON: I'm Matt Wilson, president of
9 Mitsubishi Polysilicon in Mobile, Alabama. We are a
10 polysilicon producer for the semiconductor business. Our
11 industry supplies the raw material that makes semiconductors
12 possible. In this day and time, semiconductors power our
13 world just as much as gas, oil, or electricity.

14 Innovations in today's world require
15 semiconductors, be it for cloud computer, autonomous cars,
16 advanced event systems, the Internet of things, or even the
17 huge data analysis necessary for medical breakthroughs.

18 This is an extremely quality oriented industry
19 measuring impurities in our products at the parts per
20 trillion level. As such, it is a very difficult, time
21 consuming, and expensive process to qualify suppliers of our
22 main raw material metallic silicon.

23 Over our 20 year history, we've been in contact
24 with most of the suppliers represented here today and have
25 at least run lab scale trials with most of them. We've also

1 run full and partial scale plant trials with several of
2 them. In our process, some of these trials are successful
3 and some are not for both quality and plant efficiency
4 reasons.

5 We only have access to two domestic suppliers.
6 The material from one of these suppliers, Globe, creates
7 quality problems which has not allowed us to fully qualify
8 this material for our customers and the jury is still out as
9 to whether the other supplier, Mississippi Silicon, creates
10 efficiency of operations problems.

11 For business continuity reasons, this then
12 creates an absolute necessity to utilize foreign material.
13 We operate in a global business environment. We sell our
14 product in the U.S., Europe, and Asia. We compete with
15 other suppliers from around the world. The polysilicon
16 industry is a highly competitive market. Any price
17 increases from our suppliers or through tariffs and duties
18 puts an additional strain on our global competitiveness.

19 I'm here to represent the 250 people in Alabama
20 that are part of this industry to tell you that this action
21 is detrimental to our ongoing viability. Thank you.

22 STATEMENT OF TIAGO BORGES

23 MR. BORGES: Good afternoon, my name is Tiago
24 Borges. I've been employed at Alcoa Corporation since 2005
25 and have been the procurement sourcing manager since 2012.

1 As the manager for Alcoa Silicon Metal Sourcing
2 Strategies, I will address three points in my testimony.
3 First, the importance of supply diversity; second, the
4 global market for silicon metal; and third, the silicon
5 metal decision issued by the Canadian international trade
6 tribunal, CITT

7 Alcoa purchases silicon for its U.S. operations
8 from multiple suppliers to ensure a diverse supply base.
9 This is mission critical for us because in the event of a
10 supply chain disruption such as a facility shutdown, Alcoa
11 must have backup suppliers and even ready to be shipped.

12 As a primary aluminum producer, we simply cannot
13 turn our smelters on and off to adjust to silicon supplies.
14 Regarding the global market for silicon metal, prices were
15 high in 2014 and into the first half of 2015.

16 Prices declined sharply in the second half of
17 2015 and through the first three-quarters of 2016. But as I
18 noted in my declaration, which is included in the
19 pre-hearing brief that Simcoa and Wacker filed, those
20 declines were not related to the presence of subject
21 imports. Rather they result from first global market
22 trends. Second, the addition of significant U.S. production
23 capacity, including from Mississippi Silicon. And third,
24 the resulting price war between Mississippi Silicon and
25 Ferroglobe.

1 The Commission also should note that the 2015,
2 2016 price declines were only temporary. We saw prices
3 increasing significantly from the end of 2016 through 2017.
4 And today, they are at pre-2015 levels.

5 The CITT's decision in the recently completed
6 Canadian investigation into the impact of imports of silicon
7 metal into Canada is highly relevant to the Commission's
8 analysis here. Specifically, the CITT made a number of
9 findings about the dynamics of the Canadian market that are
10 equally true for the U.S. market.

11 First, there was global supply and demand
12 imbalance in 2015 and 2016. Second, silicon metal is
13 procured almost as though it is a capital good. And third,
14 security and reliability of supply are paramount for
15 purchasers' procurement strategies.

16 In closing, I want to emphasize that if the U.S.
17 imposes ADCBD duties on silicon metal from the subject
18 countries, Alcoa's sole remaining sources of supply will be
19 Ferroglobe, its foreign affiliates to the extent that they
20 are allowed to bid, and Mississippi Silicon. Unfortunately,
21 U.S. production of silicon remains insufficient to meet the
22 U.S. demand. The imposition of ADCBD duties therefore would
23 needlessly threaten the competitiveness of U.S. aluminum
24 with melting and casting facilities.

25 The impact of such a result on thousands of U.S.

1 workers employed by those facilities could be profound.

2 Thank you for your time.

3 STATEMENT OF JAY ARMSTRONG

4 MR. ARMSTRONG: My name is Jay Armstrong. I'm
5 president of TriALco Aluminum. We produce aluminum ingot
6 primarily from scrap and our other and other members of the
7 industry produce about 300 million pounds of metal each
8 month that goes into the casting industry.

9 Silicon added to aluminum allows the aluminum to
10 flow into complex molds. You're going to find 300 pounds in
11 every car produced out there. You'll find it in engine
12 blocks, transmission housings, and throughout the car in
13 many part of the castings. It goes into motorcycles. It
14 goes into house appliances. It's part of the fabric of
15 American industry.

16 We need silicon and we need alternative
17 supplies. I personally buy the bulk of our silicon from the
18 Ferroglobe complex. However, I cannot rely on one company
19 to be my supplier. In the American metal market, they just
20 published that Mississippi Silicon was sold out and is
21 considering expanding. Well, if Globe Can't supply the
22 entire U.S. market, I need a silicon to run. I run 24
23 hours a day, 7 days a week, and I need a dependable supply
24 and somebody I can depend on. And it can't be one single
25 company.

1 The other point I would like to raise is we face
2 considerable foreign competition. If we cannot make the
3 product here, it can be made overseas with silicon much
4 cheaper, up to 40 percent cheaper than it is now, and a
5 product can be brought in and put right into our own
6 exchanges, the NASDAQ -- are sold directly to customers.
7 That puts out thousands of people's jobs in jeopardy. I
8 really want to beg the Commission to think about the other
9 industries involved and the smaller ones down the road.
10 Thank you.

11 STATEMENT OF TOM WALTERS

12 MR. WALTERS: Good afternoon. My name is Tom
13 Walters. Since 2001, I have been the senior vice president
14 for Trading and Service Aluminum Corporation, which today is
15 one of the largest scrap aluminum brokers in the United
16 States. Thank you for the opportunity to testify.

17 As a major buyer of silicon metal, I would like
18 to share my perspectives on the U.S. market. I will focus
19 on three points. One, demand for silicon metal from the
20 secondary aluminum market is strong and growing. Two,
21 service aluminum does not buy silicon metal solely based on
22 price. And three, Ferroglobe is not a reliable supplier to
23 the secondary aluminum market.

24 U.S. silicon metal prices declined from the
25 middle of 2015 to the first three quarters of 2016 as a part

1 of a broader global price decline due to Mississippi
2 Silicon's market entry, but the price they are now paying to
3 my suppliers are rising. I can gladly report that today,
4 U.S. demand for silicon in the aluminum alloying segment is
5 strong.

6 For example, service aluminum actually
7 participates in the automotive sector and 2017 or early 2018
8 silicon metal demand is robust due to the increased use of
9 aluminum in that segment.

10 More broadly, the secondary aluminum sector in
11 the United States is experiencing significant growth due to
12 inherited advantages in U.S. production, including one, the
13 high volume of scrap generation, two, recycling, and three,
14 access to downstream customers.

15 Next I'd like to tell you a little about how we
16 typically buy silicon metal. We rely on long-term partners
17 such as Simcoa to deliver silicon to us. These arrangements
18 are not conducted on the basis of spot market prices.
19 Rather, we source our silicon through contracts, typically
20 one year long and the prices are either fixed or based on
21 the Platts index.

22 It's very important to my company that our
23 suppliers honor our contracts. That is, if the spot market
24 declines, then I will still pay the higher contract price.
25 And if the spot market rises, I expect our suppliers to

1 honor the lower contract price.

2 It is evident from these arrangements that
3 neither service aluminum nor Simcoa is a price maker as to
4 silicon metal. Rather on a yearly basis, we assess prices
5 in the market and reach an agreement about what the price
6 should be in the coming year.

7 Finally, I'd like to contrast or other current
8 suppliers with Ferroglobe. Ferroglobe is the largest
9 supplier of silicon metal in the world and generally able to
10 dictate prices to its customers. However, I've not found
11 Ferroglobe to be a reliable supplier of silicon metal.
12 Notwithstanding my company's significant place in the
13 secondary aluminum segment, the truth is that Globe has only
14 approached my company once in the last 10 years to purchase
15 silicon. I've long understood that is because Globe is
16 profitably selling its silicon to other customers in the
17 higher value segments of the market. Thank you for your
18 time.

19 STATEMENT OF DAVID MILES

20 MR. MILES: Good afternoon, my name is David
21 Miles. I'm the vice president of Site Citizen Marketing at
22 Simcoa and I work at all smelting in Western Australia. I
23 am familiar with both Simcoa's sales strategies and its
24 processes for producing high quality silicon.

25 I'm here today to explain certain key aspects of

1 Simcoa's business. As the Commission as noted, we are
2 Australia's only silicon producer. The Commission should
3 note three factors that define our business. One, we have a
4 reputation for producing a uniquely high quality product and
5 our customers who value this quality overwhelmingly do
6 business with us by means of long-term contracts.

7 Two, Simcoa has participated in the U.S. market
8 for more than 20 years, but has neither the plans nor the
9 means to increase our exports to the United States.

10 And three, Simcoa is the price taker in the
11 United States.

12 To start, I'd like to note that Simcoa has a
13 strong reputation in the United States, Australia, Europe,
14 scrap and other markets for producer high quality, silicon
15 metal, delivering shipments on time, and strictly adhering
16 to contracts. We typically sell silicon metal to our long-term
17 customers on a spot, not contract basis. Our contract --
18 our customers view Simcoa as uniquely capable of providing
19 high purity silicon metal, which is absolutely essential for
20 their production needs.

21 In this context, high purity means that the
22 product has low levels of impurities such as iron, calcium
23 and phosphorous. Such specifications are very difficult to
24 achieve and few other suppliers are able to consistently
25 meet them.

1 I would also like to update the Commission on
2 our current operations we're currently sold out for 2018 and
3 quite likely for 2019. We will have excess capacity to
4 manufacture additional silicon metal, nor do we have
5 inventories from which to ship silicon metal to the United
6 States.

7 The primary reason for our limited ability to
8 ship silicon metal to the United States over the next two
9 years includes, one, rising demand for silicon metal in Asia
10 on the part of our parent company Shin-Etsu; and two,
11 long-term contracts with other suppliers outside the United
12 States.

13 Additionally, high logistical costs and a weak
14 U.S. dollar make it far less attractive for us to export
15 products here than to other markets.

16 Finally, we are only a small part of the U.S.
17 market. As you heard from others today, Ferroglobe is the
18 dominant global and U.S. silicon metal producer. Based on
19 my experience, I can confirm that Ferroglobe exerts market
20 and pricing power in the United States whereas Simcoa is
21 just a price taker. Thank you.

22 STATEMENT OF BJORNAR OVESEN

23 MR. OVESEN: Good afternoon. My name is Bjornar
24 Ovesen and I am vice president of sales and marketing of
25 silicon in Elkem and I'm accompanied here today by Nils

1 Dybwad, director of sales and marketing.

2 Elkem is the largest Norwegian producer and
3 exporter of silicon metal. Since this case was filed, we
4 have failed understand why Ferroglobe has decided to include
5 Norwegian imports of silicon in this investigation.

6 Unlike most of the countries under
7 investigation, Ferroglobe did not allege subsidies in
8 Norway. And while our company preliminary dumping margin
9 was 3.74 percent, we believe that a fair calculation of our
10 final dumping margin is zero.

11 Elkem is a responsible corporate citizen. We
12 compete by offering a high quality product, having a
13 reliable supply chain, and exceeding customers' technical
14 and service requirements.

15 We do not engage in unfair trade.

16 In fact, as you already heard, this is exactly
17 what the Canadian investigation confirmed. The Canadian
18 investigative bodies found that Elkem was not dumping and
19 found that Ferroglobe's injury case was unfounded.

20 In our view, Ferroglobe is abusing the world's
21 trade remedy laws, having lodged its cases in the U.S. and
22 Canada, Ferroglobe has now also brought the third case in
23 the space of a year this time in EU against Brazil and
24 Bosnia.

25 The Commission should not allow Ferroglobe to

1 cement their dominant position in the U.S. in this manner.
2 Their causation case is simply unfounded.

3 MR. PRUSHA: Good afternoon. Excuse me.

4 MR. OVESEN: I'm sorry. I have a bit left. In
5 the United States, we witnessed a sharp decline in prices in
6 2016 and that obviously had a negative impact on income
7 statements of all silicon metal producers, both in the
8 United States and subject countries.

9 For more perspective, this decline in prices
10 occurred at exactly the same time as a new U.S. producer,
11 Mississippi Silicon entered the U.S. market.

12 What we witnessed in the months that followed
13 was that U.S. producers were under cutting one another on
14 price and leading prices lower. The majority of the
15 domestic industry sales tend to be in the chemical segment.
16 So the impact of their self-destructive behavior should be
17 easiest to observe in that segment.

18 The injury they claim is not attributable to
19 imports. And Norway is definitely not to blame. Our export
20 volumes have been stable since 2014 and we have no plans to
21 increase exports to the United States.

22 Our capacity to produce increased quantity is
23 limited and any incremental shipment volumes would be
24 logically directed to the continue -- to serve the EU market
25 because of our proximity and preferential market access.

1 Our brief lays our case clearly. Thank you.

2 STATEMENT OF TOM PRUSHA

3 MR. PRUSHA: Good afternoon, my name is Tom
4 Prusha. I'm professor and chair of the department of
5 economics at Rutgers University. I want to discuss several
6 important incites about the economics of the silicon metal
7 industry because so much of the information in this case is
8 confidential, many of the slides I'm going to project will
9 be blank or scrubbed of key information. The Commission and
10 its staff have copies of the confidential versions of the
11 slides. In addition, my verbal discussion of the slides
12 will be deliberately vague.

13 The first point I want to make is that the U.S.
14 silicon metal production falls far short of satisfying U.S.
15 demand. Understanding this fact had important ramifications
16 for the Commission's causality analysis. There is no basis
17 for the domestic industry's argument that there's a volume
18 issue in this case. As documented in the staff report, the
19 quantity of U.S. producer shipments over the period look
20 quite robust.

21 This trend is a clear sign of a strong industry.
22 The trend in domestic producer's shipments stands in
23 contrast with a decrease in subject imports. Over the full
24 year POI, the quantity of subject imports fell by 5.8
25 percent.

1 Taking these two trends along with the decline
2 in non-subject imports it should come as no surprise that
3 the staff report depicts a strong and health industry. For
4 instance, consider the domestic producer's share of apparent
5 domestic consumption for the total U.S. silicon market.

6 This is commonly used by the Commission as a
7 metric of the domestic industry's health. In this case, the
8 conclusions are clear. The industry is not injured. In
9 fact, the industry evidence is strength, not weakness.

10 One additional comment on the domestic
11 producer's share of apparent home domestic consumption. The
12 Commission should pay attention to the modest fraction of
13 U.S. demand that can be met by U.S. producers. It is quite
14 clear that the U.S. market is seriously under supplied by
15 domestic production.

16 The inability of U.S. producers to meet domestic
17 demand is widely known and is reported by CRU as seen in
18 this table, CRU reports domestic production alone would mean
19 massive undersupply for U.S. purchasers. I point out that
20 in the table, CRU reports a very solid trend for domestic
21 production. Yet even with Mississippi Silicon, the U.S.
22 industry remains very much under supplied by domestic
23 production.

24 Despite what Ferroglobe argues about injury and
25 capacity issues, the data showed that capacity utilization

1 in the United States has been strong throughout the period.
2 In the left hand side of this table in this chart, I present
3 the domestic industry's capacity utilization as given in the
4 staff report. Even with Mississippi Silicon's reported
5 35,000 tons of new capacity, the domestic industry's
6 capacity utilization had remained strong.

7 On the right hand side, I present CRU's report
8 on capacity utilization around the globe. When one compares
9 the two figures, it is clear that U.S. capacity utilization
10 is comparable or even higher than the average global
11 producer. This again shows the domestic industry is not
12 injured. The CRU table also depicts its forecast for the
13 next several years. CRU is predicting a strong out look
14 into the future. In other words, there's no injury and no
15 threat of injury.

16 The bottom line, even with its high rates of
17 capacity utilization, the U.S. industry's production could
18 only meet a fraction of demand. The imports are vitally
19 needed if downstream consumers are to remain in business
20 consequently is it economically possible for U.S. silicon
21 metal prices to be insulated from over all global trends.
22 Imports have been and remain essential to meeting U.S.
23 demand.

24 Visually, we can see that the U.S. industry is
25 part of the global silicon metal industry in this particular

1 chart. As seen, price. As seen, prices in various markets
2 move together and importantly, as seen over the long run,
3 silicon metal has long evidenced a business cycle. This
4 highlights how critical the Commission's causation analysis
5 is in this case.

6 Let me now discuss pricing during the period.
7 As seen in this chart, it's the pricing chart, but we've
8 overlaid markers for the important events that have occurred
9 during the period.

10 At the beginning of the period, the first new
11 U.S. plant in 40 years was announced. And by late 2015,
12 Mississippi Silicon was open for business. Two important
13 developments occurred between the announcement and the
14 opening. First, silicon metal demand fell below
15 expectations and weakened prices. As was depicted in the
16 previous slide, silicon metal has historically been subject
17 to business cycle swings.

18 Second, Globe and Ferroglobe Atlantica announced
19 their intention to merge. That merger received anti-trust
20 approval after the conclusion of the 2016 mating season.
21 Mississippi Silicon began producing in late 2015 and needed
22 customers. However, it was not qualified to serve the
23 primary aluminum and silicon producers -- purchasers. This
24 meant that in its first year of operations, Mississippi
25 Silicon competed hard for the customers it could serve,

1 which were primarily product to customers. However, Globe
2 did not yield this volume easily. This competition pushed
3 prices down until mid-2016.

4 Mississippi Silicon discovered competing with
5 the 900 pound gorilla of the silicon metal industry was
6 tough. In late 2016, prices turned up sharply. They have
7 continued to rise ever since. The question is why. One
8 answer is obvious. Demand growth picked up and drove prices
9 up. Once again, this is evidence of a business cycle.

10 The other important reason is Ferroglobe's price
11 leadership. All parties, even the petitioner, recognize
12 that Ferroglobe is the price leader in global markets. The
13 staff report and purchasers here today agree that Ferroglobe
14 is the price leader. And importantly, that the 2015 merger
15 gave the conglomerate even greater influence over pricing.

16 Ferroglobe regularly stresses its pricing power
17 at public events. As seen in this slide, Ferroglobe loves
18 to emphasize to its investors how much larger it is than its
19 competition.

20 It is a well-established -- it's
21 well-established in economics that market size conveys
22 pricing power and nobody has more pricing power than
23 Ferroglobe.

24 But size is not the only way Ferroglobe displays
25 price leadership. Ferroglobe unabashedly tells it's much

1 smaller competitors how it plans to price. For example, at
2 a large silicon metal conference in November 2016,
3 Ferroglobe's CEO, Mr. Pedro Larrea told the gathering of
4 industry professionals how Ferroglobe intended to start
5 pricing.

6 As seen in this slide, taken from his talk, Mr.
7 Larrea announced that Ferroglobe would no longer offer
8 discounts. He also said that Ferroglobe would seek fixed
9 priced contract. God bless you. The staff report confirms
10 that prices changed after this conference.

11 Mr. Larrea's Powerpoint slide is not the only
12 evidence of Ferroglobe's price leadership. Questionnaire
13 responses confirm that the market responded. On this slide,
14 I give one example of what a competitor said about prices
15 following Ferroglobe's announcement.

16 I have read a number of Ferroglobe's quarterly
17 earning calls. Since the merger, Ferroglobe company
18 officials often publicly talk about how the company is
19 pricing and how it plans on pricing. And time after time,
20 market prices have responded to Ferroglobe's announcements.

21 One key reason why Ferroglobe has so much
22 pricing power it is that is by -- it is by far the biggest
23 producer in the world. As seen in this slide, it controls
24 production around the globe. This is critical for the
25 Commission to understand.

1 Ferroglobe controls the prices not just for its
2 U.S. facilities, but around the globe. If the Commission
3 wants to understand price, it should look at how Ferroglobe
4 prices from all of its affiliates.

5 In my report, I detail how the standard economic
6 measure of market power, the Herfindahl-Hirschman Index, or
7 HHI, reveals the merger gave Ferroglobe a huge increase in
8 market power. I also detail how Ferroglobe's attempt to use
9 Mississippi Silicon's entry to leverage an anti-dumping
10 countervailing duty case creates a real chance for an even
11 larger increase in market power. Ferroglobe publicly brags
12 about its massive size and the market power that its size
13 creates is reflected in the HHI metric.

14 Now one problem is the HHI metric is not
15 terribly intuitive. In order to address that issue in my
16 report, I use a standard model of oligopoly competition to
17 convert the HHI metric into increases in Ferroglobe's
18 pricing. The figure on the slide gives my estimates of how
19 much greater pricing power Ferroglobe has. In the case of
20 its merger, I estimate its pricing power increased by 28
21 percent.

22 This case coming on the heels of this
23 controversial merger could result in exclusion of the
24 subject countries. As a result, Ferroglobe's pricing power
25 would increase by another 67 percent.

1 These results suggest that the case is not
2 really about unfair competition. It's an attempt by
3 Ferroglobe to gain immense market power. The Canadian
4 tribunal saw the same thing and rejected Ferroglobe's
5 anti-dumping countervailing duty request to Canada.

6 Finally, two comments on threats. CRU reports
7 are incredibly bullish on the demand outlook for silicon
8 metal. As seen here, comments like double-digit growth,
9 rising U.S. production, and rising prices are found commonly
10 in the CRU reports.

11 As shown in this next figure, CRU stresses how
12 demand growth is quite strong and projected to be strong
13 into the future. CRU projects demand growth exceeding the
14 growth in supply. Therefore, a key cause for falling prices
15 in 2015 is now a distant memory and is not expected to
16 reoccur for the foreseeable future. Thank you.

17 MR. ORAVA: That concludes our testimony,
18 Commissioner.

19 VICE CHAIRMAN JOHANSON: Thank you for your
20 testimony. I congratulate you. You had 1 minute and 25
21 seconds left, so your timing was very good. I'm going to
22 begin the questioning today, and I'm going to talk about the
23 issue of underselling. The pricing data show that subject
24 imports undersold the domestic like product in 66 out of 88
25 comparisons, and this is -- can be seen in the staff report

1 at page 524.

2 Why shouldn't we find significant underselling
3 on this record, and Mr. Levy, I see you want to speak. You
4 wrote on this at some length in fact. That is what brought
5 about my question.

6 MR. LEVY: Yeah, thank you Commissioner
7 Johanson. The underselling data to which you refer relate
8 to Products 1, 2 and 3, merchant market transactions. If
9 you take a step back and ask yourself where are the U.S.
10 industry's sales concentrated, and the answer is it's one
11 particular segment. If you then look at I believe it's
12 Table V-6 at page V-20, what you see there is a comparison
13 of direct import prices.

14 These are purchases for internal consumption,
15 as compared with U.S. producer prices. And what you see on
16 that table we think is highly probative if not dispositive
17 of the causation issue, at least on the issue of adverse
18 price effects and what's happening in particular in 2016 and
19 interim 2017. You know, Commissioner Williamson asked sort
20 of earlier of Petitioner's panel, you know, what is this --
21 what are we to make of significant internal consumption of
22 subject imports on this record?

23 And the short answer that we provide is that
24 you need to give probative weight to what you use in Table
25 V-6 in order to understand the quarterly pricing data, and

1 we think that information's highly probative, and it
2 bespeaks a record of self-inflicted injury, at least with
3 regard to price degradation in 2016 and interim 2017.

4 VICE CHAIRMAN JOHANSON: Thank you, Mr. Levy.

5 MR. PRUSA: This is Tom Prusa. I'd like to
6 add one more comment to that. We also presented in the
7 Wacker-Simcoa brief an analysis of this issue. I want to
8 echo what Mr. Levy just said, which is if you look across
9 the three different product types, a lot of this
10 underselling are in the products where there is very little
11 volume.

12 In the product where the domestic industry's
13 emphasis is, not only is there not much underselling period,
14 there is almost no underselling during the period of time
15 that they are claiming injury. That is 2016 onwards. So
16 it's really important to look at the underselling analysis.
17 You need to look at the individual products and look at the
18 question of whether there's pricing -- a relationship
19 between imports in the areas that the domestic industry is
20 competing.

21 VICE CHAIRMAN JOHANSON: Thank you, Dr. Prusa.
22 Yes, Mr. Lewis.

23 MR. LEWIS: Yeah. Craig Lewis with Hogan
24 Lovells. I concur with the comments that were just made,
25 but I'd just like to also add, and this discussion's on page

1 98 of the Wacker-Simcoa brief, that the Commission needs to
2 be, I think in this case, particularly cautious in viewing
3 the underselling data. I think the presumption behind the
4 quarterly pricing comparisons is that you're getting a sort
5 of head to head comparison of pricing offers or pricing
6 decisions in the market.

7 But as the Commission staff report shows, this
8 is an industry where there's a significant amount, and these
9 figures are confidential pricing that's made pursuant to
10 long-term and annual contracts, and there's a significant
11 difference in the proportion of them as between imports and
12 domestic products. I think it's somewhat misleading to
13 assume that each of these quarterly price points actually is
14 comparing price to price competition.

15 VICE CHAIRMAN JOHANSON: Thank you, Mr. Lewis
16 and others. And if you all wouldn't mind trying to follow
17 this up some in your post-hearing briefs. An issue we have
18 here is this data is confidential, or at least a great deal
19 of it is, and so it's hard to discuss it here. But I think
20 it's an important matter to address. Mr. Levy, thanks for
21 talking about it in your brief, which was the last one I
22 read, which is probably why I remember it, that issue
23 sticking out so well.

24 Do Respondents dispute that the domestic
25 industry experienced a cost-price squeeze during the Period

1 of Investigation as Globe argues, and you can see this at
2 page 25 of their brief, and also in the C table. I realize
3 again this is proprietary information, but if you could
4 discuss it to the extent you can. If not, follow up in your
5 post-hearing brief.

6 MR. STOEL: Vice Chairman Johanson, Jonathan
7 Stoel for the record. So there is you say a lot of
8 confidential information. I think I would just make a
9 couple of statements that I can state publicly. One is, as
10 we've talked about, we think when you look at pricing, you
11 need to think about two primary things. One is the global
12 cycle that we've talked about, and the second is obviously
13 the entry of Mississippi Silicon and then its competition
14 with FerroGlobe.

15 So that obviously when you talk about a price
16 squeeze, you're talking about two different things,
17 cost-price squeeze. One is the pricing and two is the cost.
18 When you talk about the cost, particularly of the
19 Petitioner, leaving aside the others in the domestic
20 industry, we've already heard from the Dow witness and
21 you've read about publicly that there are some issues
22 around its cost structure, including key raw materials and
23 there's more on the confidential record, Mr. Vice Chairman,
24 that goes into how its cost structure appears to be
25 different than others in the market.

1 And so if you're going to look at a price-cost
2 squeeze, you have the wonder, as the Canadian tribunal
3 found, whether this is a self-inflicted injury. This is
4 nothing to do with subject imports. If they are pricing
5 their raw materials in ways that I don't quite understand
6 why they might be doing it, they're doing it in ways the
7 tribunal found to be self-inflicting, and that obviously
8 impacts the question you're asking.

9 MR. PRUSA: One more comment on this. This is
10 Tom Prusa. One thing about FerroGlobe is they are a
11 conglomerate not just in the silicon metals market; they're
12 vertically integrated.

13 So you may ask yourself why are they talking
14 self injury? Why would a company -- this is a company that
15 controls operations up and down the line, and in the sense
16 that we talk about self-injury, there's a question at least
17 in my mind and it's discussed in the briefs, about the
18 extent that they have interest in other parts of this vast
19 operation and not so much interest in certain operations
20 here in the United States. That's what we're talking about
21 in self injury.

22 MR. ORAVA: This is Steve Orava with King and
23 Spalding. One last comment, I don't think I need to pile
24 on. But I would just point out Dow has obviously two joint
25 ventures with Globe. We are very familiar with cost

1 structure, and we refer you to our briefs and confidential
2 information as to how that affects that cost-price squeeze.

3 VICE CHAIRMAN JOHANSON: Okay.

4 MR. LEVY: Commissioner Johanson, if you'll
5 indulge me, I'd like to pile on too. When I think of a
6 cost-price squeeze, I typically think of a situation where
7 COGS are increasing, and the ability of the domestic
8 industry to raise prices to preserve its gross margin is
9 being impaired. Their prices are being suppressed by
10 subject imports, that subject imports are effectively
11 imposing a price ceiling on the price they can charge.

12 I'd respectfully submit that on this record
13 what we see is a different fact pattern. If you look at
14 unit COGS, by and large the trend over the POI is one of
15 stability, and what drives the deterioration in financial
16 performance, particularly during the 2016 period onward, is
17 depression in prices.

18 You know, in a situation where I suppose you
19 have price depression, you can have a fortiori price
20 suppression. But it begs the question of what's causing the
21 decline in prices. It's essentially a case of who done it,
22 and this takes us back to the earlier question, which is
23 who's the low price leader, particularly in the segment that
24 matters? We respectfully submit that the domestic industry
25 is responsible for the price decline and therefore its own

1 injury during this Period of Investigation.

2 VICE CHAIRMAN JOHANSON: Thanks, Mr. Levy.

3 Now Mr. Levy, you and several others have talked about the
4 self-inflicted injury caused by Globe to itself. You all
5 address this in your briefs. Could you maybe expand upon
6 this a bit in your post-hearing? I think that would be
7 helpful, because I'm curious. Once again, what exactly
8 causes this cost-price squeeze as pointed out by Globe?
9 It's a very important issue in this investigation.

10 The Brazilian respondents have argued that
11 subject imports from Brazil should not be cumulated because
12 among other reasons, these subject imports complement and
13 enable the use and purchase of domestic product, and this
14 can be seen in the Liasa brief at page 13. Could you all
15 please explain this a bit further, exactly how Brazilian
16 product is complimentary to U.S. producers' products, and
17 how they should factor into our cumulation analysis?

18 MR. VANDER SCHAAF: This is Lyle Vander Schaaf
19 from Liasa. I think most of my information was bracketed as
20 confidential, and so I'll give Dow a chance to address that
21 issue first, and then I'll see if I can add some points.

22 VICE CHAIRMAN JOHANSON: Okay. If you can't
23 address it adequately here, since it's proprietary, then
24 feel free to do so in the post-hearing, and then also Mr.
25 Brown, you wanted to speak I see.

1 MR. BROWN: Yes. This is Craig Brown, and I
2 would offer that the way it complements itself, it goes back
3 to the low boron content, where we are able to import the
4 silicon metal which contains low boron content and blend
5 that with domestic material here in the U.S., which is a
6 higher boron-containing material.

7 Just to be clear, maybe to explain this real
8 simply for the Commission, think of the U.S. industry as
9 coal-based, and Brazil for example as being charcoal-based.
10 And so inherently when you're using charcoal, you have a
11 lower boron content than when you're using coal. So by
12 importing that to the United States, we're able to blend
13 that and then meet our polysilicon specifications.

14 VICE CHAIRMAN JOHANSON: Okay, thank you for
15 your responses, and I'll look forward to reading further on
16 this in the post-hearing brief if you all can do that.
17 Also, I see these exhibits up here, and about probably a
18 quarter them are sunscreen. Does this product, does it like
19 deflect the light or something or the UV rays? Is that what
20 it is?

21 MR. SEARCY: Yeah. My name's Mike Searcy.
22 I'm with Dow. I've been with Dow for over 30 years. I've
23 worked in Research and Development, Operations, Engineering
24 and for the last over a decade I've done, purchased all of
25 our silicon metal for the corporation globally, and we're

1 the largest consumer and buyer of silicon metal globally.

2 So let me just relate a little bit to those
3 products. I just happen to grab a bunch off of Walmart's
4 store shelf. There are a lot of other products. This is
5 just a sampling of them. Silicone has unique properties.
6 It basically has a nice texture. You all use it every day.
7 If you use waterproof makeup, it has silicone in it. When
8 you put your deodorant on, it has silicone in it.

9 There are so many products that contain
10 silicone. It's a basic building block of many of the
11 products that we use in our every day lives, and you just
12 don't know about.

13 VICE CHAIRMAN JOHANSON: What does it do to
14 sunscreen? I'm rather curious about it.

15 MR. SEARCY: So in terms of the sunscreen, it
16 basically when you -- if you use like a spray sunscreen, it
17 doesn't evaporate quickly. So it doesn't get cold when you
18 spray it on. It has a nice texture when you put it on your
19 skin. It goes on smoothly and absorbs slightly into your
20 skin, so that when you're done you don't stick to the sand.

21 VICE CHAIRMAN JOHANSON: Okay. Well thank
22 you. It's very interesting. I've always wondered how that
23 stuff works. Commissioner Williamson.

24 COMMISSIONER WILLIAMSON: Thank you Mr. Vice
25 Chairman. That is an important question coming from --

1 (Laughter.)

2 COMMISSIONER WILLIAMSON: I do want to thank
3 all the witnesses for their testimony today. It's almost
4 like where do we start, but okay. On the -- Globe argues
5 that of course low boron silicon metal is not a concept used
6 in the industry, and I think I just heard you explain why
7 you said it was important, because -- silicon metal from a
8 non-coal source. Is that the reason?

9 MR. BROWN: This is Craig Brown. And again, we
10 use the low boron content and we blend that with domestic
11 sources. So again, the low boron content coming from
12 Brazil, which is made with charcoal. The domestic industry
13 making silicon metal with coal. So by blending those two
14 together, we're able to meet the specification, the high
15 purity requirements for polysilicon.

16 COMMISSIONER WILLIAMSON: Let me ask you, you
17 heard what the Petitioner said this morning.

18 MR. BROWN: Yes. I was holding back, thank
19 you.

20 COMMISSIONER WILLIAMSON: Okay. So I guess
21 the question for post-hearing is can you provide purchase
22 documents in the ordinary course of business that specify
23 the low boron content?

24 MR. BROWN: Let me speak to that specifically.
25 Yes, we can provide some emails which speak to the boron

1 specification. In fact, where they requested waivers to
2 meet our boron specification out of their Quebec location,
3 which supplies our polysilicon facility.

4 So frankly I was a bit surprised this morning
5 when they said they'd never heard of a boron spec, because
6 they are the ones that asked for a boron waiver, which we
7 granted to them. We're able to accommodate that by bringing
8 in more silicon metal from Brazil, in order to offset that
9 higher boron level that they have struggling to meet from
10 their Quebec facility.

11 COMMISSIONER WILLIAMSON: So are you saying
12 that basically no U.S. producer that's getting its raw
13 material here is going to be able to meet your boron
14 content?

15 MR. BROWN: That is correct.

16 COMMISSIONER WILLIAMSON: Okay. I was just
17 wondering, because I was thinking about the Alabama
18 facility.

19 (Simultaneous speaking.)

20 MR. SEARCY: Let me add to that.

21 COMMISSIONER WILLIAMSON: Mr. Searcy.

22 MR. SEARCY: Yes. My name is Mr. Searcy, Mike
23 Searcy. We do take a small amount of silicon from our DC
24 Alabama facility to our Midland facility. Again, blending
25 it with silicon that we bring out of Brazil that has much

1 less lower boron contents. We're very familiar with the
2 boron levels that you can get from various supplies around
3 the world, and we have to manage this very carefully.

4 COMMISSIONER WILLIAMSON: Okay, because my
5 other question was going to be in Table II-10 of the staff
6 report indicates a significant majority of the purchasers
7 rated U.S. and Brazilian silicon metals as always or
8 frequently interchangeable, and how does it affect the
9 argument about low boron? So you see, we're trying to
10 document this clear conflict between Petitioners, and I see
11 someone in the back. Lyle?

12 MR. VANDER SCHAAF: Yeah. Why don't you go
13 ahead and I'll go after you.

14 MR. MAJUMDAR: This is Oliver Majumdar from
15 Wacker. We buy low boron material from Globe in our
16 facility in Tennessee, or we used to buy. There's a point
17 where -- so we hate boron in the process because that
18 shouldn't be in the finished product, so we try to avoid
19 putting it into the process. The 40 PPM level that we
20 require is sort of the commercial optimum, where a supplier
21 can still supply material without having too high costs,
22 which in the end we have to pay. So we try to limit the
23 amount of boron introduced into the system.

24 Globe can make a low boron product, but they
25 have higher costs. So they have to use a different mix of

1 coal ingredients in order to achieve that level. So that's
2 why I was very surprised this morning. I think one
3 statement from Marlin or the economist was that we don't
4 know about boron, our customers don't specify boron and
5 boron is boron, that doesn't affect us. It was very
6 surprising.

7 COMMISSIONER WILLIAMSON: Okay.

8 MS. HUDSON: And excuse me. This is Mary Beth
9 Hudson from Wacker. Just to add, the reason why the boron
10 is so important is for our finished product quality, because
11 again we are producing polysilicon with boron in the single
12 digit parts per trillion range. So it's extremely important
13 to have low boron.

14 MR. VANDER SCHAAF: Commissioner Williamson,
15 this is Lyle Vander Schaaf for Liasa and Minasligas. In
16 this morning's panel, you heard the witnesses say that 20
17 parts per million is not a commercial standard. That's
18 entirely our point. It's more of a proprietary standard,
19 and it suggests that this product at the very least is not a
20 commodity product.

21 They've said that basically my point is the
22 reason why this product is so different is the reason why
23 the Brazilian imports should be not cumulated with other
24 subject imports, and the reason why there is attenuated
25 competition with most of the domestic like product, they

1 said it's only relevant for polysilicon and it's not
2 relevant for silicones, primary aluminum or secondary
3 aluminum.

4 Well that's -- that just points to the data.
5 Where are the imports from Brazil going? What products are
6 being made by their -- by the imports from Brazil? The vast
7 majority, very vast majority goes to polysilicon, and that
8 supports our reasons for why the Brazilian product has
9 attenuated competition with the domestic like product, and
10 attenuated competition with the other imports, and why the
11 Brazilian imports should be not cumulated with the other
12 imports.

13 COMMISSIONER WILLIAMSON: Okay, I'm sorry. Go
14 ahead.

15 MR. DYBWAD: Yes. My name is Nils Dybwad.
16 I'm with Elkem. I've been with Elkem for more than 30
17 years, working with silicon and ferrous. I would say
18 definitely silicon is not a commodity in my view, but
19 there's been a lot of focus here today on boron, which is an
20 important element especially for the polysilicon industry.
21 But there are other elements that are equally important in
22 --

23 COMMISSIONER WILLIAMSON: It's an important
24 element for or is not having it important?

25 MR. DYBWAD: Not having it.

1 COMMISSIONER WILLIAMSON: Okay, thanks.

2 MR. DYBWAD: It's an important element that is
3 not wanted in polysilicon. However, there are other
4 elements that are not wanted in various production processes
5 such as, for example, phosphorous, and an interesting fact
6 is that silicon is not created equal, and whereas Brazilian
7 silicon is low in boron, it is not particularly low in
8 phosphorous. For Norwegian product it's the other way or
9 it's -- our focus is on very low phosphorous combined with a
10 relatively low boron.

11 So we're talking not one element here; we're
12 talking many elements. You also have elements that are
13 positive to customer's processes. This can be, for example,
14 copper or iron. So silicon is different, and I think what
15 we're trying to say here is Brazilian silicon is low on
16 boron, which is positive. Norwegian silicon is low on
17 phosphorous, which is also positive, and there are many
18 other elements that come into play when you're talking
19 about silicon.

20 You're also talking about size, the size
21 distribution, even the shape and geometry of individual
22 silicon grains. So this is -- I think it's important that
23 for silicon, we're talking about not a commodity, and I
24 think that different producers in the world and in the U.S.,
25 they have different good points and bad points.

1 For the U.S. industry, I would say it would be
2 very positive for the U.S. customers to have access to
3 different silicons, because they are not created equal and
4 not produced in an equal and similar way. Thank you.

5 COMMISSIONER WILLIAMSON: I'm always
6 interested in questions on diversity and inclusion, but I
7 did not expect that I was going to get it today. But so I
8 guess for post-hearing, to help staff, how large is the
9 actual demand for the product that has the low boron?

10 How significant a part of the U.S. consumption
11 is that, and I guess that goes for any other significant
12 product or content that would be relevant for our
13 consideration today, because these questions are -- what's
14 the magnitude and how much difference does it make in the
15 end is something that we always have to wrestle with.

16 MR. DYBWAD: Yeah, it does make a difference,
17 and also it provides the possibility of blending products if
18 you have low products and high products, whatever you want.
19 So blending is also a part of this.

20 COMMISSIONER WILLIAMSON: Ahh, even more
21 complicated.

22 MR. ORAVA: And this is Steve Orava from King
23 and Spalding. But just to highlight, if you just look at
24 the products, you get a sense for how pure and how much
25 specifications matter, you know. The Petitioners this

1 morning had said that yeah, everything's a commodity
2 provided it meets the specifications that you ask for and
3 can be used in the process that you use it for. Well, that
4 means it's not a commodity product, and I think that helps
5 to highlight that fact.

6 COMMISSIONER WILLIAMSON: Okay, thank you.
7 Okay. What is your position on the captive production
8 provision, whether the captive production provisions apply
9 in this case?

10 MR. BAY: This is Ben Bay from King and
11 Spalding. We agree with the Petitioners that the captive
12 production provision does not apply, but we would like to
13 add, if you were to apply the captive production in this
14 case to the test, it would fail the second prong of the
15 test. We found that there is an error in the staff report
16 on page III-16.

17 The staff report says that the silicon metal
18 takes, is a large portion of the final downstream products.
19 We find that that's not correct. In the Commerce
20 investigation, it is publicly on the record that the
21 downstream article has about 95 percent of added value to
22 the silicon metal. So the silicon metal only takes up about
23 five percent, and therefore it would fail the second prong.

24 COMMISSIONER WILLIAMSON: Okay. Thank you for
25 those answers, and my time has expired.

1 VICE CHAIRMAN JOHANSON: Commissioner
2 Broadbent.

3 COMMISSIONER BROADBENT: Thank you,
4 Commissioner Johanson. Mr. Brown, can you explain the
5 merger of Dow and DuPont and Dow-DuPont's plans to split the
6 company within 18 months into three publicly traded
7 companies? Does this affect DC Alabama's operation or your
8 joint venture with Globe?

9 MR. BROWN: Sure. This is Craig Brown. I can
10 answer that question. Yes, we're in the midst of a
11 significant merger with DuPont, Dow and DuPont, and the
12 intent is to go into three independent spins some time in
13 2019 or early 2019, and the silicones, the Dow Silicones
14 portion of that business will be in one of the three spins,
15 which is known as the materials company or materialco
16 internally, and the intent is that Dow Silicones or the
17 primary portion of that, including our strategic feedstocks
18 which DC Alabama and West Virginia are part of, would remain
19 part of Dow Materials Company, which in the way we look at
20 it in the future, I'll just add onto that, we call that the
21 future Dow, because there's again three companies, two of
22 them more led by DuPont heritage folks, and in this case
23 materials company will be led by primarily traditional or
24 heritage Dow Chemical people.

25 COMMISSIONER BROADBENT: Okay. So that will

1 include Dow Silicone and the feedstock production?

2 MR. BROWN: Correct, yep.

3 COMMISSIONER BROADBENT: Okay. Mr. Brown
4 again, Dow sources silicon, excuse me, metal from multiple
5 sources. For each of the suppliers that Dow sourced from
6 over the Period of Investigation, can you provide
7 information in your post-hearing brief about -- and I'll
8 list about three things here. The existing commercial
9 arrangements that govern your purchasing behavior from
10 these suppliers; whether you are obligated or incentivized
11 to offtake a fixed quantity of silicon metal from each
12 supplier; and three, how prices or transfer prices are set
13 between Dow and each supplier.

14 MR. BROWN: Yes, we can do that.

15 COMMISSIONER BROADBENT: Okay, thanks. This
16 would be for Dow and REC Silicon. Is silicon metal the
17 predominant raw material input in the production of
18 silicones and polysilicons within your operations?

19 MR. BROWN: This is Craig Brown with Dow, and
20 yes, I would answer that silicon metal is the key raw
21 material for both polysilicon and for silicones production.
22 It makes up a significant portion of the cost.

23 MR. BOWES: So this is Chris Bowes, REC
24 Silicon. Silicon metal is the major raw material for
25 polysilicon and silicon gases for our operations.

1 COMMISSIONER BROADBENT: Great, thank you.

2 MS. HUDSON: And this is Mary Beth Hudson from
3 Wacker Polysilicon. Of course, it is also the main raw
4 material for our polysilicon operations in Charleston,
5 Tennessee.

6 MR. STOEL: Commissioner Broadbent, this is
7 Jonathan Stoel from Hogan Lovells. I wanted to add one key
8 point that's relevant to your question, and that is you
9 heard this morning talk about how there have been many cases
10 against silicon metal. Obviously we're all aware of that,
11 and some of the companies in the room have participated in
12 those, in addition to the Petitioner.

13 There's a key market difference that the
14 Commission needs to take into account in this case. In the
15 past, aluminum and metallurgical demand has been the number
16 one driver for silicon. That is no longer the case. We all
17 know today if you look at the record, public and
18 confidential, where the demand is.

19 You just heard from the key companies in the
20 room what they're using silicon metal for. So where in the
21 past we were talking about what happened in the
22 metallurgical segment of the market, and that was what drove
23 many of the Commission's findings, we think you need to
24 revisit those findings, things such as whether silicon metal
25 is considered a commodity.

1 In the past, maybe that would have been agreed
2 upon, maybe not. Our friends from Alcoa probably would
3 disagree. But clearly today, looking at silicon metal the
4 way you did 5, 10 or certainly 20 years ago, you can't do
5 that. This is a fundamentally different product in terms of
6 its application.

7 COMMISSIONER BROADBENT: Okay. This is for the
8 witness from Mitsubishi. Can you discuss the extent to
9 which trade conflict with China; particularly, the Chinese
10 decision to impose trade remedies on U.S. polysilicon
11 producers has affected growth in production of U.S.
12 polysilicon and demand for silicon metal?

13 MR. WILSON: In Japan?

14 COMMISSIONER BROADBENT: No, with China with the
15 conflict.

16 MR. WILSON: We provide semiconductor grade
17 almost exclusively -- about 98 percent, not material for
18 solar. And it's my understanding that -- and we do not ship
19 to China at this point, but it's my understanding that the
20 semiconductor polysilicon is not included in the action
21 towards the duties that China's imposing, that semiconductor
22 grade can still be shipped to China, although it has nothing
23 to do with us. We do not ship anything to China.

24 MS. HUDSON: From our perspective, certainly, we
25 do not sell our product from the Charleston, Tennessee plant

1 into China, but we compete on the quality of our product.
2 So because of the superior quality of our polysilicon, we
3 are able to find customers outside of China.

4 MR. BOWES: So our Moses Lake facility targets
5 solar-grade polysilicon primarily and most of that market is
6 in China. And because of the trade dispute we have been
7 impacted and as a result we've had layoffs at our facilities
8 for eight year in the last three years and we have shut down
9 capacity and we're currently running at half capacity at the
10 Moses Lake facility and that is primarily due to that trade
11 conflict.

12 COMMISSIONER BROADBENT: How much have your
13 sales fallen?

14 MR. BOWES: Well, by over half.

15 MR. ORAVA: Just from the Hemlock perspective,
16 just reiterating what everyone has said, I think from
17 Hemlock's perspective, we had in our testimony that we never
18 even got a chance to operate our \$1.2 billion facility in
19 Tennessee. We dismantled it and sold it. We have had
20 significant layoffs as well, including as recently as
21 December. And the impact across the industry has been in
22 the hundreds of millions of dollars in terms of export
23 opportunities that have been lost due to that conflict. So
24 there's been a lot of impact, both on ability to make sales,
25 but also the amount of production and capacity devoted to

1 producing polysilicon.

2 COMMISSIONER BROADBENT: Okay. This would be
3 for any industry witness that wanted to comment. What has
4 been the major trends in silicon metal consumption during
5 the past five years with sectors and applications, silicon,
6 silicon-based alloys, silicon for polysilicon production,
7 semiconductor and electronics have an increase the most
8 during that time period and why? Which applications have
9 declined or remain unchanged? I know we spoke of this
10 earlier, but maybe someone could sum it up for me.

11 MR. MAJUADAR: If I may. The chemical business
12 has grown very much. The silicon production worldwide is
13 growing because, as you can see, it's connected to consumer
14 goods and growing with the average GDP, so there's a very
15 strong demand in silicon application.

16 While the silicon outside the U.S. has exploded
17 exponentially, there's a tremendous consumption of silicon
18 metal for polysilicon. In the aluminum field, I'll bow to
19 my colleagues here from Alcoa and others, but in general,
20 the consumption of aluminum in the automotive sector has
21 increased very much, especially, in the U.S. since you have
22 fuel directives that require lighter cars. So again, in the
23 morning the Petitioner said that the market is growing or
24 shrinking and polysilicon is nothing. Just to a reference
25 to the U.S., we put up a plant in 2015 for \$2.5 billion that

1 consumes 20 to 23,000 tons of silicon metal when
2 operational and the U.S. market size is 310, 320,000 tons,
3 so we had consumption capacity to the extent of more than 7
4 to 10 percent.

5 MR. ARMSTRONG: We are seeing a large demand
6 growth in the use of silicon and the use of aluminum in
7 cars. We expect it to continue and grow, whether we go to
8 electric cars or stay with gas it's going to call for
9 lighter cars and the aluminum will be in demand.

10 COMMISSIONER BROADBENT: Okay, great.

11 Let's see, for the Joint Respondents, you argue
12 within your briefs that the consolidation of several global
13 production facilities under the umbrella of Ferroglobe has
14 caused purchasers to seek alternative sources of supply
15 independent from that conglomerate. However, you also note
16 that the entry of the new U.S. producer, Mississippi
17 Silicon, served to create additional competition. Wouldn't
18 the Ferroglobe merger and the Mississippi Silicon market
19 entry cancel each other out or balance each other as far as
20 purchasers' concerns about supply reliability?

21 MR. PRUSA: I'll start and the short answer is
22 no. I think you need to take a look at -- so again, the
23 Globe FerroAtlantica merger as large as Globe was here in
24 North America they were small compared to FerroAtlantica and
25 the ability for U.S. purchasers to independently seek bids

1 from France, South Africa, and Spain independently of their
2 North American options that went away as of the mating
3 season in 2016, so that volume makes Mississippi Silicon
4 look small.

5 Now domestically, agree with you that there are,
6 especially, for purchasers located in the South, Mississippi
7 Silicon is an attractive alternative, but to think that
8 Mississippi Silicon could offset the competitive affects of
9 the FerroAtlantica/Globe merger they're just -- we're
10 comparing just two different sizes.

11 MR. MAJUMDAR: When we set up our project, which
12 is now called -- our plant in Charleston called Poly-11 back
13 then we looked to various options with whom to source, so
14 one was Globe because they were in close proximity.
15 Mississippi Silicon was planning to do something and then
16 there was FerroAtlantica, who had qualified plants in South
17 Africa. They were supplying us from France and they were
18 planning to build a 100,000 ton plant in Port Cartier in
19 Canada. And then by the time we had started our plant in
20 2015, they announced the merger and they cancelled the plant
21 in Canada, so we were left with no options.

22 MR. STOEL: Just one comparison I think gives
23 you a perspective on this. If you looked at Slide 6 from my
24 deck this morning, you'll see that in 2014 and 2015 South
25 Africa alone was more than 40,000 tons and that was

1 FerroAtlantica. And just remember Globe controlled and does
2 today South Africa, Canada, Spain, France, so a number of
3 places. The Mississippi Silicon plant, looking at the
4 public information, that's included in our brief, Exhibit
5 10, you'll see Mississippi Silicon is 36,000 tons, so right
6 there from one country you can see that they control more
7 than the Mississippi Silicon could produce.

8 And just one comment about Mississippi Silicon,
9 there were some comments earlier today about how they
10 wouldn't have entered the market if they knew what pricing
11 was going to do. They spent \$200,000 million on that plant.
12 I don't think you make that decision on the basis of a spot
13 price in a particular month. You make that on a long-term
14 basis. And they tried to enter the U.S. market several
15 years ago. We know, as we documented in our briefs and I
16 said this morning, we know who most opposed their entry,
17 their own U.S. friend, Ferroglobe. They're the ones who
18 opposed them. There's been adequate demand for them.
19 Ferroglobe was the one that tried to prevent them from
20 entering the market.

21 MR. THALER: As I mentioned earlier, the
22 consolidation of the plants in France, Spain, and South
23 Africa, with the inclusion of the Globe U.S. plants is far
24 greater in scale and ability to serve the market overall and
25 to serve our needs than Mississippi Silicon. Mississippi

1 Silicon is obviously looking to diversify their customer
2 base as well and as such has limited ability to supply and
3 as a result we have yet to qualify Mississippi Silicon, so
4 very different in scale and very different in scope and
5 ability to support the industry.

6 MR. BROWN: I would just like to add on here for
7 the record that we have been very supportive of Mississippi
8 Silicon as they entered the market and initially have been
9 buying from them and continue to buy from them in lieu of
10 buying from the Globe location in South Africa and one of
11 the reasons we did make that move is not only to support
12 domestic industry here in the U.S., but also was due to some
13 unreliable supply issues that we had out of the South Africa
14 location and the chance to diversify our supply base as
15 well.

16 COMMISSIONER BROADBENT: Okay, thank you very
17 much. I appreciate it.

18 MR. SEARCY: I just want to add to that comment.
19 We very much want to source domestically in the U.S. And in
20 fact, in 2015, we dramatically tried to increase our
21 domestic sourcing of silicon metal and signed a much larger
22 contract than we had previous years. Unfortunately, the
23 Petitioner could not meet their contractual commitment and
24 requested that we delay shipments of some of that material
25 into 2016, which we did.

1 In order to make room for additional domestic
2 supply, we had reduced our Brazilian imports into the U.S.
3 during 2016, but as a result of the unreliability of supply
4 we had to go back to our previous sourcing and increase our
5 Brazilian supply and reduce our domestic sourcing until
6 Mississippi Silicon came online. Again, we had an
7 opportunity to increase our domestic supply and we took that
8 and we are a major customer of Mississippi Silicon.

9 VICE CHAIRMAN JOHANSON: Mr. Searcy, do you have
10 any written documentation to that effect of when that
11 occurred?

12 MR. SEARCY: We can provide that.

13 VICE CHAIRMAN JOHANSON: If you wouldn't mind,
14 that might be helpful in the post-hearing. Thank you.

15 Globe cites the antidotal information gathered
16 in the preliminary and final phases of these investigations
17 regarding lost sales and lost revenue as supporting its
18 claim that subject imports have had adverse price affects on
19 the domestic industry, and this can be seen in the
20 Petitioners' brief at page 44. Could you all please
21 respond, post-hearing, to their specific allegations
22 regarding confirmed lost sales and revenue?

23 I see some nodding heads, so I assume that's
24 yes. Thank you. I look forward to seeing that.

25 Following up on the topic of the Globe and

1 FerroAtlantica merger, what impact did this merger have on
2 purchasing patterns in the United States and globally?
3 Could you please explain how it affected customer
4 perceptions regarding diversity of supply and why would it
5 drive customers to seek alternative sources of supply as
6 Respondents have argued, for example, at the
7 Liasa/Minasligas brief at page 28?

8 MR. SEARCY: Let me go ahead and take a first
9 pass at that. As the largest consumer certainly in the
10 Western world, we must have diversity of supply because of
11 the significant amount of silicon that we're buying,
12 especially in the U.S. and simply relying on one supplier is
13 not something that we can do or two suppliers. And that's
14 one of the reasons we've made such significant investments
15 in silicon metal, both in the U.S. and outside of the U.S.

16 You know we've talked about the fact that we are
17 leveraging that silicon metal and adding 95 percent value to
18 the cost of the silicon to produce the products that we're
19 selling to our customers here in the U.S. and that we're
20 exporting from the U.S. The most expensive silicon metal I
21 will ever buy is the silicon metal I don't have to make the
22 products where I can get a significant return on those
23 products, so security of supply is the number one thing of
24 importance to us and we go to great lengths to work with
25 suppliers all over the world and every supplier that's

1 producing in North America to maintain that complex supply
2 chain to make sure that we have all the silicon we need to
3 make all of the products that we make.

4 MR. ORAVA: Mike, you might want to talk just a
5 bit about the commercial practice that you follow in terms
6 of how much you can share.

7 It's not a situation as Petitioners kind of
8 alleged this morning that if you don't make it in Brazil and
9 consume internally then suddenly you're going to go to the
10 merchant market and when you go to that merchant market,
11 necessarily, it's going to be Globe and Mississippi Silicon
12 receiving that sale. It's much more complicated than that.

13 MR. SEARCY: Yes, I mean there's the complex
14 process of qualifying plants. In fact, in North America the
15 only Globe-related plants we have qualified right now are
16 the two joint ventures we own with Globe. None of their
17 other facilities are even qualified to supply us currently.
18 They haven't gone through the qualification process recently
19 to maintain their qualification.

20 In addition, we have limits in terms of how much
21 silicon we will buy from any one plant. Even though we're a
22 large consumer in the market, if we're buying a significant
23 portion of a plant's output, then basically if they have
24 problems then the first people that are going to observe
25 that issue is us. We're going to get shorted. So we try to

1 diversify our supply to make sure that if any one company or
2 any one plant has a problem we have other options for
3 sourcing to maintain 100 percent silicon sourcing to our
4 highly valuable downstream processing.

5 MR. MAJUMDAR: If I may add to that, 2016 was
6 very interesting. I didn't know the story about Dow having
7 to defer deliveries in 2015. In summer of 2016, we suddenly
8 realized that it was a mistake to trust Globe completely to
9 supply all our needs in Tennessee. Of course, being a
10 startup plant, we had back and forths on the demand and
11 supply. Sometime in the summer of 2016 Globe informed us
12 that they had to rededicate some capacity in -- to make
13 ferrosilicon and as a result didn't have enough capacity
14 available to supply us.

15 This, as Mike mentioned earlier, if you put all
16 your eggs in one basket, you face the trouble and we made
17 the mistake of doing that in the United States and we
18 suffered from that.

19 MS. HUDSON: So our polysilicon operation is an
20 interconnected series of operating units on site with
21 recycle streams going back and forth. So if you lose one
22 piece of the operation at the beginning where we're getting
23 our silicon metal it shuts down the entire operation and it
24 can have devastating affects on quality and we can have to
25 essentially scrap all of the material that are in the

1 reactors, as well as having the outages that are associated
2 with not having raw material supply.

3 MR. BOWES: We have a similar sourcing strategy,
4 as Mr. Searcy described, for surety of supply and having
5 multiple sources and that's -- I just want to echo what he
6 said and that's to ensure constant flow of material to help
7 support our operations that have to run 24/7 because of the
8 number of different things that can happen and that we have
9 seen happen that will delay shipments or delay production at
10 various facilities from suppliers. So we view that strategy
11 as critically important in order to ensure continued
12 operations at our facilities.

13 VICE CHAIRMAN JOHANSON: Thanks for your
14 responses.

15 Mr. Searcy, I'm going to come back to you, and
16 you mentioned a qualification process. Do most customers,
17 as far as you know, require qualification of silicon metal
18 before purchasing and if so, how is this done?

19 MR. SEARCY: I can only speak for my own
20 company. I'm not familiar with others' qualification
21 process, but what I can tell you is that even for example
22 Mississippi Silicon the first time we took through our
23 process they failed. We had to work very closely with them
24 in terms of how they were producing product to get them
25 producing to a point where they could actually meet our

1 qualification process. Other suppliers around the world
2 have either been qualified or not qualified based on their
3 performance and their ability to supply. It's a very
4 complex process. It can take anywhere from six months to a
5 year for us to qualify a supplier.

6 MR. THALER: I'd like to address that as well,
7 if you mind. We have a very rigorous qualification process
8 and a continuous monitoring process as well, and I think
9 you've heard that from some of the other Respondents here,
10 so same thing. It's an extremely long process and, as I
11 mentioned earlier, can take up to 12 months to qualify a new
12 supplier. So again, we always qualify. Nobody simply comes
13 in. And I think somebody mentioned earlier it's even by
14 site, by asset, by process, so we monitor that
15 continuously. Thank you.

16 MR. BOWES: On our purchasing strategy, we
17 cannot purchase from a non-qualified site. Qualification
18 process typically takes one to two years, starts with lab
19 samples, lab processes, and eventually, works its way up to
20 production qualification. Even after a site is qualified,
21 they have to undergo continuous audits to remain qualified.

22 Another aspect of the qualification process for
23 us is their ability to meet sizing specifications as well,
24 as we have a unique specification on our sizing.

25 MR. SEARCY: I want to add one more thing to

1 this. We don't make these qualification processes up. We
2 certainly define them. They are there because our customers
3 demand them. Our customers require that we qualify our raw
4 materials and that we monitor our raw materials in order for
5 them to buy our products, so this is something that's driven
6 by our customers, not only by ourselves, but by our
7 customers as well.

8 VICE CHAIRMAN JOHANSON: I'm wondering with
9 Elstrem correct? That's the name of your company, right?

10 MR. OVESEN: Elkem.

11 VICE CHAIRMAN JOHANSON: Elkem, I'm sorry about
12 that. Do you all customers who require qualifications
13 before they will purchase your product?

14 MR. MILES: We have many customers that require
15 qualification and almost all customers that we supply in the
16 chemical segment and polysilicon segment do require
17 qualification.

18 VICE CHAIRMAN JOHANSON: Okay, thank you all for
19 your responses. Anybody else want to comment on that?

20 MR. BOWES: I verify that we regularly have,
21 over the years, gone through qualification processes with
22 all these companies and we regularly have to undergo audits
23 to maintain that qualification.

24 MR. MAJUMDAR: If I may add, what we do is if
25 somebody calls me up and says I want to do something with

1 you, at first we get literally two buckets of silicon metal
2 to run lab-scale trials. And then if that is good, we do
3 three trials of about 150 metric tons each, then we run the
4 material in our plants and study the before and after
5 affects for eight weeks, so we do three trials of eight
6 weeks each and then somebody's qualified with us. During
7 the time we buy material from them, we monitor constantly
8 what are they reporting, what are we measuring. There is a
9 quality feedback process, which is every six months or one
10 year that they get feedback from us. The moment they change
11 something in their process we notice immediately. We even
12 stop deliveries or claim them and say this is not what we
13 asked for.

14 In Tennessee we had the further complication
15 that we didn't have milling and grinding plants. We bought
16 powder directly and Mary Beth can comment on that.

17 MS. HUDSON: Not only do we have the technical
18 qualification based on the chemical characteristics of the
19 silicon metal, but also the physical characteristics, so we
20 do the trials in the plant where we're unloading. And I can
21 assure you if you had been in a plant working along side
22 some of our workers that were covered from head to foot in
23 this what looked like black soot trying to unload some
24 material and get into our process and could not because of
25 the particle size distribution you would understand

1 directly how important the physical characteristics are as
2 well as the qualification of the chemical characteristics.

3 Just to add, every batch that we receive of
4 silicon metal we send a sample over to our labs in Germany
5 for chemical qualification or certification tests,
6 validating the certificate of analysis that we receive from
7 our supplier, so it is ongoing.

8 MR. ARMSTRONG: On the metallurgical end, not
9 only do we pre-qualify customers, but we follow every
10 truckload through production to make sure that it delivered
11 up to 31 different chemical analyses as far as elements.

12 I might add we do have boron also, but it's not
13 a crucial element to us.

14 MR. BORGES: Just to add that Alcoa's
15 qualification process is very similar as to what has been
16 described so far in terms of the complexity and how long the
17 process can take. In our case, it can take at least three
18 months and go up to six months. We had several occasions
19 where a producer didn't pass the first step of the
20 qualification, which would be a lab test and in that case we
21 don't go ahead with any trials in the plant and we can't
22 buy from that specific producer independently of how low the
23 price offer is. So the qualification is an important
24 process for Alcoa as well.

25 VICE CHAIRMAN JOHANSON: Okay, thank you. My

1 time's expired, so I'm going to turn it over to Commissioner
2 Williamson.

3 COMMISSIONER WILLIAMSON: thank you. For
4 post-hearing, Mr. Thaler from Momentive on page 2 of your
5 testimony at the bottom you mention that Selma plant was not
6 closed due to the import competition, but to aluminum sector
7 demand -- and new supply from Mississippi Silicon. I was
8 wondering to what extent you can document that to support
9 that statement.

10 MR. THALER: We'll comment on that, yes.

11 COMMISSIONER WILLIAMSON: Okay, thank you.

12 And Mr. Majumdar, I think you talked about the
13 problem of Globe not meeting your demands for the new
14 facility and again what documentation you can provide
15 post-hearing on that would be helpful.

16 MR. MAJUMDAR: Yes, I have exact emails and I
17 can provide that.

18 VICE CHAIRMAN JOHANSON: Good, thank you.

19 To what extent do prices in the chemical and
20 aluminum market segments move together? How significant are
21 the formula prices in the different segments, and are each
22 based on the same spot price? Do I need to repeat that?

23 MR. SEARCY: Let me make an initial comment. My
24 understanding is, is that the purchasing mechanisms are
25 somewhat different. For example, generally, Dow purchases

1 fixed volumes for a year. We do those negotiations in the
2 fourth quarter and the volume and price is fixed for the
3 following year.

4 COMMISSIONER WILLIAMSON: Is that the chemical
5 segment we're talking about now?

6 MR. SEARCY: That's the chemical segment.
7 That's correct. My understanding is the aluminum purchases
8 are somewhat different than that, but I'll let someone speak
9 with more knowledge of that that does those purchases
10 directly.

11 MR. BROGES: So the negotiation period takes
12 place during typically the last quarter of one year and
13 prices can be fixed for 12 months, which would mean the
14 following year or for six months. Typically, in the case of
15 Alcoa the preference is for a 12-month price negotiation
16 during the previous quarter of the coming year.

17 COMMISSIONER WILLIAMSON: -- can both of you can
18 address whether or not the formulas that are used in fixing
19 those prices are different and if you have to do it
20 post-hearing that's fine.

21 MR. SEARCY: My understanding is it's more of a
22 secondary aluminum industry that purchases material more on
23 a spot basis, truckload basis, and they tend to follow the
24 index pricing. That's my understanding.

25 MR. PRUSA: You know one thing that's important,

1 and I had it up there, there's both at the -- maybe you
2 could go back to the slide of the Ferroglobe statement at
3 the conference. There's a variety of different ways people
4 can price and here's Ferroglobe basically saying we're no
5 longer using index. So I think you're getting an idea that
6 everybody's going back to an index. Here's an example of a
7 major industry guy saying that that's not going forward.
8 There's a diversity of how different price. Some people
9 historically have used the index, especially, I think in
10 Product 2.

11 COMMISSIONER WILLIAMSON: What I'm trying to
12 find out is between the different segments of industry could
13 you say the chemical sector does this, the aluminum sector
14 does this, and somebody else does something else.

15 MR. PRUSA: I don't know if you can be that
16 clear, but this is the -- again, we have to look at the data
17 confidentially, but this is a guy saying that he doesn't use
18 the index.

19 COMMISSIONER WILLIAMSON: Yes, I understand
20 that, but that was a change in the shift. I'm talking about
21 what's been the pattern.

22 MR. MAJUNDAR: If I may comment on that, Dow is
23 the largest silicon metal consumer in the world, that's
24 clear, but because we are not as backward integrated we
25 consider ourselves the largest buyer in the merchant market,

1 so we sort of split our risks and we have some suppliers
2 whom we ask to quote on fixed prices. We try to close a
3 number of contracts in index-based flexible pricing and we
4 do some others that we do a floor and ceiling, depending on
5 the market conditions. It basically depends upon the
6 supplier's willingness to talk about the future and how he
7 or they see the future. And if we both agree, then we can
8 do a fixed prices where they will be always certain that
9 they will get a certain margin on their product because they
10 know their costs, but some don't agree with us and say,
11 well, the market will increase and they we say, okay, then
12 let's do an index-based price. If the market increases, you
13 profit. If the market reduces, we benefit. The problem
14 with the index is that there's no liquidity in the market
15 for the chemical consumers because we don't do these spot,
16 truckload purchases, so we have to use an index which is run
17 by -- run, so to speak, in inverted commerce by the aluminum
18 industry who buys on the spot market, which we consider an
19 inferior product because it's not suitable for our
20 processes. So it's sort of a Catch-22 situation that if we
21 agree on an index we have to use an index that has more
22 liquidity and that's the aluminum market.

23 -- if that answers your question, I don't know.

24 COMMISSIONER WILLIAMSON: Which tells me how
25 complicated it is.

1 MR. MAJUMDAR: Why should it be simple?

2 COMMISSIONER WILLIAMSON: Someone else want to
3 shed some light and maybe simplify it? Okay, we're just
4 trying to get an understanding of how prices could set in
5 this -- in these markets or segments.

6 MR. ARMSTRONG: From the secondary aluminum --

7 COMMISSIONER WILLIAMSON: Yeah, sure.

8 MR. ARMSTRONG: You were talking about different
9 ways of buying and I tend to buy 40 percent either for the
10 quarter or for the year on a fixed price, but since I don't
11 know what's going to happen with the aluminum market or the
12 silicon market, I buy 40 percent on a formula basis also.
13 Tends to keep me more leveled out and not exposed to spikes.

14 And then the other 20 percent, I wait and see
15 what becomes available and what happens to the market.

16 COMMISSIONER WILLIAMSON: Okay. There's a
17 formula. Okay, thank you, okay.

18 Okay, respondents argue that the drop in U.S.
19 prices in 2015 and 2016 was due largely to the falling
20 global prices over the same period. Even if this is true,
21 could it not also be true that subject imports were the
22 mechanism by which global prices were transmitted into an
23 otherwise higher priced U.S. market?

24 MR. PRUSA: This is Tom Prusa. Is it possible
25 in theory? Again, we know that there's a relatively by most

1 cases that you hear, a relatively small share of U.S.
2 consumption is being met by domestic production. Import are
3 in the market. They've always been in the market. That's a
4 reality.

5 COMMISSIONER WILLIAMSON: Yeah.

6 MR. PRUSA: So now the question is is that what
7 you just said possible? I think you need to look at the
8 fact pattern. Don't go back to the slide with all the
9 events. Right? So we understand -- I understand as
10 powerful as FerroAtlantica was pre-merger, Ferro -- there --
11 they don't control a business cycle. We understand that --
12 they're a powerful company. There's still nonetheless
13 things beyond Ferroglobe's control. They are still subject
14 to the business cycle, as powerful as they are.

15 Now the question is when this merger happened,
16 and this also the time when prices when going down, when
17 Mississippi Silicon enters and needs to sell in the market.
18 So you have to make a decision. We believe that this 30 --
19 again, public reports, they vary somewhere around 35-,
20 36,000 tons of new product in the U.S. market destined for
21 U.S. customers.

22 Okay, the direct impact of that was the driving
23 force and led not just Globe, but other companies to respond
24 in terms of the market dynamics as Mississippi Silicon was
25 ramping up.

1 So I think you're correct that it's possible
2 imports are in the market, but whether they're leading the
3 prices down, that's not supported, right? There's prices
4 coming in from a lot of different sources, included
5 non-subject countries controlled by FerroAtlantica, now
6 Ferroglobe. And they're playing a major role in how the
7 pricing people see in the market.

8 MR. STOEL: Commissioner Williamson?

9 COMMISSIONER WILLIAMSON: Yeah.

10 MR. STOEL: Jonathan Stoel for the respondents.
11 I think one point ties on to the very good question was
12 asked recently about qualification. You heard from several
13 of the folks here that Mississippi Silicon couldn't qualify
14 in the chemical and polysilicon market. Why? Because as
15 some of the witnesses testified, it takes time, up to one
16 year, two years, even longer. And second, unfortunately, in
17 several instances, MISSISSIPPI SILICON failed to be able to
18 qualify.

19 So that means they're coming online and they
20 have fairly substantial production being developed. They
21 can't put it in what I told you earlier is now the big part
22 of the market, the chemical and also in the polysilicon.

23 If you're trying to sell your product and you
24 can't put it in one place, of course, you're going to put it
25 somewhere else. So they put it in the other segments of the

1 market. And that obviously has an impact. That's not a
2 huge capacity, but it's still 36,000 new tons. It obviously
3 has a tremendous impact on price.

4 So when you look at the real driver of pricing
5 in certain segments, particularly in 2015 and into 2016 when
6 the petitioner's alleging harm, clearly that new 36,000 tons
7 going into that aluminum part of the market, that had a very
8 significant impact on price.

9 COMMISSIONER WILLIAMSON: Okay. To the
10 post-hearing to help us understand, if you want to point to
11 places in the record that substantiate that, it would be
12 helpful.

13 MR. STOEL: We'll do that, Commissioner. Thank
14 you.

15 COMMISSIONER WILLIAMSON: Okay, and again, I
16 always talk about this question of allocation. How much of
17 that was the driving -- driving the prices down? What role
18 did imports play, given that the U.S. price is above the
19 world market price and is there -- the question that I ask,
20 is there any --

21 MR. PRUSA: So --

22 COMMISSIONER WILLIAMSON: Is that totally
23 irrelevant or is it -- or does it have some bearing?

24 MR. PRUSA: No, I think there's -- I think we
25 tried to -- if you look in the Wacker Simcoa brief, we think

1 it's important that you look at pricing from Mississippi
2 Silicon. We also think it's important you look at pricing
3 from non-subject imports controlled by Ferroglobe. Again,
4 we have -- this is a --

5 COMMISSIONER WILLIAMSON: Okay.

6 MR. PRUSA: -- very difficult case we can talk
7 about specifics of the hearing.

8 COMMISSIONER WILLIAMSON: Yeah.

9 MR. PRUSA: I think --

10 COMMISSIONER WILLIAMSON: Post-hearing, if you
11 can --

12 MR. PRUSA: -- there is important price
13 information that you have that give a sense of what's
14 happening in the market.

15 COMMISSIONER WILLIAMSON: Okay. Just so in
16 post-hearing, just kind of point to the record to make that
17 point. Thank you.

18 VICE CHAIRMAN JOHANSON: Commissioner Broadbent?

19 COMMISSIONER BROADBENT: Yes. What impact will
20 the new high test sands 60,000 metric ton per year silicon
21 plant in Washington have on the domestic silicon market if
22 it is built?

23 MR. BROWN: This is Craig Brown with Dow. I can
24 -- we can speak to that in our post-hearing brief, but I can
25 say that the COO there, the chief operating officer, is an

1 ex Dow Corning employee. We know them well and I think we
2 can provide some good details in a post-hearing brief on
3 that.

4 COMMISSIONER BROADBENT: Okay, terrific, thank
5 you.

6 This is one thing I'm a little confused about
7 for -- and I would say all right, this was for REC Silicon
8 and Dow. You both argue that silicon producers require
9 extremely pure grades of silicon metal in their production
10 process. However, the scope of these investigations does
11 not include ultra-high purity semiconductor or solar grades
12 of silicon metal with silicon content of 99.99 percent or
13 greater. To what extent do polysilicon producers actually
14 purchase silicon metal subject to these investigations?

15 MR. SEARCY: It's Mr. Searcy here. So
16 polysilicon is being made from the silicon under
17 investigation. And so there's no polysilicon that's used as
18 a feedstock to make siloxane or polysilicon.

19 COMMISSIONER BROADBENT: Anyway --

20 MR. SEARCY: Does that answer your question?

21 COMMISSIONER BROADBENT: Okay, to what extent do
22 polysilicon producers actually purchase silicon metal
23 subject to the investigation?

24 MR. ORAVA: So --

25 COMMISSIONER BROADBENT: In the scope?

1 MR. ORAVA: Yeah, this is Steve Orava with King
2 & Spalding. Maybe just to help you guide you a bit, Mike, I
3 think we've had this conversation before that the silicon
4 metal is made into a -- an intermediate product that fits
5 the scope. And that intermediate product is then sold to
6 polysilicon producers, or in our case, transferred to
7 Hemlock, which is then further refined into the high grade
8 polysilicon that then is not in the scope.

9 MR. SEARCY: Yeah. So Dow -- and yeah, the
10 processes are different. Dow's process is we take silicon
11 metal and we produce it -- we produce a chemical that we
12 then sell to Hemlock Semiconductor, which uses that chemical
13 to produce the polysilicon.

14 Other polysilicon producers may have all of that
15 operation on a single site and I'll REC or Wacker talk about
16 that.

17 MR. MAJUMDAR: Yes, if I may say, okay, you
18 didn't ask us specifically, but --

19 COMMISSIONER BROADBENT: Oh, please.

20 MR. MAJUMDAR: -- anyway, so I'll leave for
21 Wacker here. So what we do is we react the silicon metal
22 with chlorine to get trichlorosilane or TCS as we call it
23 and we then purify that before they position into
24 polysilicon. So we need about 110 percent of metallurgical
25 grade silicon metal to make the final silicon metal product.

1 That's polysilicon product, which then goes into the solar
2 industry or the electronic industry.

3 MR. BOWES: So this is Chris from REC Silicon.
4 I'll jump in since you called us out. Our process is even
5 different from Wacker's or Dow's in that purchase the
6 silicon metal and we turn it into a gas. We can sell that
7 gas. Most of the gas we turn back into polysilicon that we
8 sell.

9 This is one area that we find interesting with
10 petitioner in that their announced project with FerroSolar
11 is an attempt to -- another process that would compete with
12 ours in the polysilicon market.

13 COMMISSIONER BROADBENT: Okay, great. Ms.
14 Byers, if the Commission determines that injuries suffered
15 by the domestic industry in 2016 was self-inflicted, but
16 also caused by increased pressure from low-priced subject
17 imports, doesn't this mean that the Commission should vote
18 affirmative? Could subject imports be a cause of material
19 injury, but not the only cause?

20 MS. BYERS: Bonnie Byers from King & Spalding.
21 I think if you look at the totality of the evidence in this
22 case, it's one of those situations where the impact of
23 subject imports is really relatively so small compared to
24 the other things that are stacked up against it. I think
25 you have the leeway to make that judgment. I think you

1 don't need to necessarily determine the amount of injury
2 from each source. But clearly, all the other sources of
3 injury outweigh anything that could be caused by subject
4 imports.

5 COMMISSIONER BROADBENT: Okay.

6 MR. STOEL: Commissioner Broadbent?

7 COMMISSIONER BROADBENT: Uh-huh.

8 MR. STOEL: Jonathan Stoel. I think if you look
9 at Jengzao Trina and then also at Swift Train, you know,
10 your question is obviously directly on point, but I think
11 here as Ms. Byers said, subject imports are not causing
12 material injury to this industry. And we think that the
13 Canadian tribunal made several findings that are key here,
14 because they were looking at very similar conditions of
15 competition. They said it's about cyclical pricing and also
16 about self-inflicted injury.

17 We've talked a lot about that today and of
18 course, we'll provide more details in our post-hearing
19 submissions. As an aside, I'd like to apologize for the
20 length of our briefs already, but we'll try to keep it short
21 and succinct, but I think it's clear that this is not a
22 situation where subject imports are causing the injury.

23 I'd also like to submit, and the others here
24 should testify to it, this is a situation where the domestic
25 consumers desperate for product. They've been testifying

1 again and again. This is not a reliable supplier.

2 Petitioner is not giving them what they need.
3 That's not subject import's fault. That's the fault of the
4 petitioner. When a domestic supplier came online,
5 Mississippi Silicon, what happened? They were sold out.
6 They just announced again they're sold out.

7 So if a U.S. supplier's doing a great job,
8 they're going to get bought out first. But when they're
9 not, these customers here today are telling you they need
10 product and they're not getting it. So that's not about
11 subject imports. That's about faults with the petition with
12 all due respect.

13 COMMISSIONER BROADBENT: You said Swift Train
14 and what was the other case?

15 MR. STOEL: Sorry, Jengzao Trina was decided
16 just last month, Commissioner.

17 COMMISSIONER BROADBENT: Okay. All right. For
18 either Dow or Wacker or Simcoa, the argument has been made
19 that Globe's costs for specific inputs are unusually high.
20 Is the argument that Globe would have been profitable had
21 these inputs been more online with other U.S. producers or
22 that the directional pattern of financial results would have
23 been less severe?

24 MR. BROWN: This is Mr. Brown with Dow. I can't
25 -- all I can speak to is you've seen in some of the

1 briefings is that we do, and we know this because of the
2 joint ventures that we're in with them, where we're a 49
3 percent owner and actively involved and engaged in key
4 strategic decisions there.

5 But at the end of the day, they -- we have found
6 and we can probably follow up with this in post-hearing
7 briefs, that they have used self-supplied coal at higher
8 than market prices, which does inflate their cost. Now
9 whether or not that would make them profitable or
10 unprofitable, I'm not an expert and can't speak to that.

11 MR. ORAVA: Yeah, this is Steve Orava from King
12 & Spalding. We'll follow up with that at post-hearing, but
13 there's a lot going on here and we'll try to be as clear as
14 possible as where this might lead them to land that they've
15 been doing things on more of a market basis rather than a
16 self-serving basis.

17 MR. MAJUMDAR: Yeah, if I may Oliver from
18 Wacker. We have a silicon metal smelter of our own in
19 Norway. So we buy coal from the open market. And since the
20 coal we buy is based on steam coal, which is used in power
21 plants, the prices of that has fallen significantly since
22 2012 to 2017, which lowered costs for smelters that were
23 using this particular kind of coal.

24 Globe acquired Alden in Kentucky in 2012 and has
25 been trying to sell that coal to many people, including us.

1 And I think Elkem has also more confidential details on
2 that, which we showed in the Canadian case.

3 That coal was priced similarly in 2012, 2014.
4 But since the other coal has significantly dropped in prices
5 recently, the Alden coal is just -- although it has some
6 nicer benefits, including lower boron, it's not suitable or
7 not price competitive to us. So Globe would be better
8 suited to buy coal in the open market, but they're stuck
9 with this company they're associated with and vertically
10 integrated with and so on. So they're buying higher priced
11 coal unnecessarily.

12 COMMISSIONER BROADBENT: Okay. Thank you.

13 Yeah, Mr. Brown, just maybe I'd love to have
14 your perspective on this. I'm just trying to understand how
15 a company that you have joint ventures with is filing all
16 these cases against you?

17 MR. BROWN: How much time do you have? Yeah, I
18 struggle with that as well. I mean, we've had a long
19 historic relationship with them that goes back to Mr. Searcy
20 for the last 15 years, but I think it's fair to say we do
21 have and we have this two joint ventures with them, where
22 we're 49 percent owned. We have historically bought
23 significant amounts of silicon metal from them in the tens
24 of millions of dollars range in Europe as well as the U.S.
25 So the fact that you would go after one of your customers

1 captive assets and -- is bizarre to me at best.

2 COMMISSIONER BROADBENT: Okay.

3 MR. BROWN: That's my perspective.

4 COMMISSIONER BROADBENT: All right, on that
5 note, I will end my questions.

6 VICE CHAIRMAN JOHANSON: Okay, thank you,
7 Commissioner.

8 MR. SEARCY: Mr. Searcy here. I just want to
9 make one more comment.

10 COMMISSIONER BROADBENT: Yeah.

11 MR. SEARCY: I think it's very telling where the
12 customers are in this case. They're all here right now on
13 this side of the table. Notice there were no customers when
14 Globe testified earlier this morning.

15 VICE CHAIRMAN JOHANSON: Okay. This is another
16 question for Dow Corning. The Commissioner excluded Dow
17 Corning as a related party in the preliminary phase of these
18 investigations. How has your record in the final phase
19 developed in support of the opposite conclusion under the
20 related party provision?

21 MR. ORAVA: This is Steve Orava from King &
22 Spalding. I think from our perspective, it's just -- the
23 record's very clear in terms of the factors that you look
24 at. And even if those factors weren't -- even if you were
25 to not include West Virginia, which we think you should

1 given that that's our production, and maybe Mike can speak
2 to that in a second, there really, you know, first of all,
3 DC Alabama is a significant producer. They're the second
4 largest producer in the U.S. And so clearly, that's where
5 their interests lie.

6 Second, Dow Corning -- Dow Silicone obviously
7 has a strong interest in domestic production. We make a DC
8 Alabama silicon metal. We source as our witnesses have said
9 substantially from Mississippi Silicon and from Globe. And
10 therefore, again, you know, our interests as American
11 company is in the silicon metal that we produce here and are
12 able to source here from U.S. companies.

13 Third, it's been said I think I counted five
14 times that Dow Silicone benefits from dumped and subsidized
15 imports. And on that point, I think I have to go into a
16 little more detail because I think we need the public record
17 to be absolutely clear. You know, after receiving more
18 information, we think Commerce is going to look at from our
19 subsidy rate perspective at the prelim. It was a tiny
20 subsidy rate. And we think when they get more information
21 about how the Brazilian bat system works, that's going to go
22 down to zero.

23 From a dumping perspective, Commerce really just
24 pulled a number out of thin air because it was still
25 grappling with the complexities of the case in dealing with

1 data that we provided on further manufacturing.

2 As we've stated repeatedly, you know, Dow
3 consumes 100 percent of what it brings in from Brazil. It
4 then takes that product and adds 95 percent value and sells
5 it around the country and exports it.

6 In those circumstances where we're making 3,000
7 products, adding 95 percent value added to the subject
8 imports, we just think that any dumping margin that is
9 created is going to be artificial.

10 So on that specific factor of whether we're
11 benefiting from dumping and subsidies, I think the clear
12 position for us and I think the facts demonstrate it at
13 Commerce is that we're not in a position where we're
14 benefiting from that.

15 Rather as indicated in our opening, we've got
16 very significant and integrated value chains that go from
17 the silicon metal all the way through to the products you
18 see here in the table.

19 And then finally, in terms of whether we skew
20 the data or not, you know, if you look at the trends and we
21 can get into this in post-hearing brief, but if you look at
22 the trends, it's not surprising that our trends follow the
23 rest of the industry and that, you know, some differences in
24 how different companies' financial health may be somewhat
25 different, but follow the same trends, isn't a reason to

1 exclude us from the domestic industry.

2 MR. SEARCY: Yes, Mr. Searcy here. I just want
3 to make the point that the WVA manufacturing facility, which
4 is the largest silicon producing facility in the United
5 States, we own 49 percent of that. We consider 49 percent
6 of that product to be our own. We have supermajority rights
7 at that facility, which I won't talk about here, but we can
8 go into at the break.

9 VICE CHAIRMAN JOHANSON: Okay, thank you for
10 your responses. This question is probably for Mr. Vander
11 Schaaf. You represent the Brazilian producers, is that
12 correct?

13 MR. VANDER SCHAAF: Yeah, we also Ligas and
14 Minasligas we do not -- I do not represent Rima, the other
15 producer, or Curacao's related operations.

16 VICE CHAIRMAN JOHANSON: Okay, well, this is for
17 anybody who has an interest in Brazilian production. The
18 Brazilian respondents note shutdowns in Brazil by Ligas
19 Minasligas during the period of investigation as shown in
20 their brief at page 16. What were the circumstances
21 surrounding these shutdowns? And please apprise us of
22 current conditions and the status of production by these
23 firms?

24 MR. VANDER SCHAAF: I might have to get into
25 some of that in the post-hearing brief, but essentially,

1 there was an energy crisis in Brazil that caused first Liasa
2 and then Minasligas to shut down. Liasa shut down in 2014
3 and then Minasligas shut down in 2015.

4 They've also had other shutdowns because of
5 other complications and I can get into more of that in the
6 brief. They did mention some of that in their questionnaire
7 responses.

8 Minasligas has not returned to the U.S. market.
9 It left the U.S. market in 2014 when it shut down, has not
10 sold anything in the United States since then.

11 Liasa sold very small quantities in 2014 and
12 2015 and then sold a little bit higher quantities in 2016,
13 but still very small, you know, around probably less than 1
14 percent of the current consumption.

15 So they've really never come back to the U.S.
16 market since those shutdowns. But I can provide more detail
17 in our post-hearing brief on those issues.

18 VICE CHAIRMAN JOHANSON: Okay, thank you, Mr.
19 Vander Schaaf.

20 Mr. Searcy?

21 MR. SEARCY: Yes, I just want to add to that.
22 You know, certainly these electric shortages did affect
23 other members of the Brazilian industry. I want to point
24 out it did not affect Dow. We ran our facilities flat out
25 because we didn't have those power issues. We need the

1 production from our Brazil facilities to maintain our own
2 production and all of that material we produced running flat
3 out, we used internally for our own use.

4 VICE CHAIRMAN JOHANSON: Okay, thank you, Mr.
5 Searcy. And this is another question for Dow Corning.
6 Globe points out that Dow Corning represented in a brief to
7 the Commerce Department in the anti-dumping investigation on
8 silicon metal from Brazil that "silicon metal for various
9 sources, including from Brazil, is co-mingled and treated as
10 fungible within the inventory systems." And this is -- can
11 be seen in the petition brief at page 30.

12 Does this not suggest that Brazil considers
13 silicon metal from Brazil -- pardon me, does this not
14 suggest that Dow Corning considers silicon metal from Brazil
15 and other sources as fungible?

16 MR. ORAVA: Steve Orava from King & Spalding.
17 We'll get into this a little more in our post-hearing just
18 to give the exact excerpts from the various submissions, but
19 you know, it's another bit of misdirection, because it's
20 taken out of context. You know, Dow stated that silicon
21 metal from Brazil has low boron needed to make high purity
22 quality silicon and this often not interchangeable with
23 silicon metal from other sources.

24 What Globe fails to say is that they made their
25 own statements to Commerce that silicon metal from Brazil

1 has a different chemical composition to that of
2 non-Brazilian silicon metal, and so much so that any
3 non-Brazilian silicon metal used in downstream production
4 process with Brazilian silicon metal constitutes an
5 additional material.

6 So essentially, they've taken the opposite
7 position and have just not bothered to disclose that and
8 we'll make that clear in our post-hearing submission.

9 VICE CHAIRMAN JOHANSON: Okay, thank you, Mr.
10 Orava.

11 And as a follow up respecting low boron content
12 silicon metal and whether it is a recognized commercial
13 product, are there any international standards for this
14 product? We spoke about trying to qualify the product, but
15 are there international standards for it?

16 MR. SEARCY: Yeah, it's Mike Searcy here. We
17 use that material in our Midland facility in Michigan. And
18 because that material is the low boron material is so
19 important to us, we source the majority of the silicone we
20 use in that facility from either captive assets or
21 controlled assets. So it's not a specification that would
22 be out of the market place because it's so important to us
23 that we control that internally.

24 MS. BYERS: This is Bonnie Byers. Mike, why
25 don't you explain --

1 VICE CHAIRMAN JOHANSON: If you could move the
2 microphone a bit closer?

3 MS. BYERS: Oh, sorry.

4 VICE CHAIRMAN JOHANSON: Thanks.

5 MS. BYERS: Why don't you explain to them why it
6 is so important to have this high purity level for purposes
7 of polysilicon production?

8 MR. SEARCY: Sure. I'm sure some of my peers
9 here that produce polysilicon can talk more to this, but you
10 need to recognize that some of the gains that we're seeing
11 in the world in terms of computers running faster have to do
12 with the fact that silicon is being more and more pure.

13 You know, the way you can think about it is
14 these atoms that don't belong in a silicon are kind of like
15 stop signs. So when the electricity is flowing through the
16 semiconductor chips, if it hits these atoms that aren't
17 supposed to be there like boron or other things that it kind
18 of slows down the signal going through.

19 So what we're seeing is our customers are
20 demanding higher and higher and higher purity. The way to
21 think about the purity, I think, our friends at Wacker have
22 talked about this in one of their briefs, but you know,
23 maybe the way you can imagine it is like a dollar bill on a
24 stack of dollar bills 10 feet tall, in a whole football
25 field full of the stack of \$10 bills 10 feet high in one

1 atom. One dollar bill represent one atom. That's the type
2 of purity that the polysilicon is trying to get to in terms
3 of meeting our downstream customers' needs.

4 So there's great pressure on us to continue to
5 try to reduce the impurities in the feedstocks that we're
6 providing to the Hemlock polysilicon plant and our
7 competitors are dealing with the same pressures from their
8 downstream competitors -- downstream customers as well.

9 VICE CHAIRMAN JOHANSON: Thank you, Mr. Searcy.
10 My time has expired. Commissioner Williamson?

11 COMMISSIONER WILLIAMSON: Okay, just some follow
12 up questions. What are the differences in the
13 specifications of silicon metal required by producers of
14 chemicals versus of producers of polysilicon? And also,
15 what is the comparative size of U.S. consumption of silicon
16 metal in these two product areas?

17 MR. MAJUMDAR: If I may?

18 COMMISSIONER WILLIAMSON: Go ahead. If you want
19 to do it now post-hearing, whatever is easiest.

20 MR. MAJUMDAR: In our questionnaire responses, I
21 think we referenced complex or very long quality response
22 what we said what is required for silicones and what is
23 required for polysilicon. I think that's on the record,
24 right?

25 So simply said is that the requirements for

1 polysilicon are quite different than for silicone.
2 Silicones, for example, heats -- the process heats heavy
3 metals, which you could impart to the silicon metal by using
4 petroleum coke instead of charcoal or instead of coal,
5 because that poisons the catalyst that do the magic inside
6 the process.

7 In terms of competitive size in the U.S., I
8 think that's also CRU data. I think we've got that in the
9 record. Silicones in 2017 require worldwide 900,000 tons of
10 material. Solar is about 650,000 tons of material. And so
11 chemical is 1500 or 1.5 million tons of material is required
12 for polysilicon and chemical applications. And aluminum is
13 1.1 million.

14 COMMISSIONER WILLIAMSON: Okay. Does --

15 MR. MAJUMDAR: Yeah.

16 COMMISSIONER WILLIAMSON: Okay. Okay, thank
17 you. Okay, thank you. And if anybody wants to add anything
18 further post-hearing. Okay. Wacker and Simcoa's brief at
19 pages 89 and 90 cite CRU as the source showing a global
20 supply surplus in 2016 and 2017. In your post-hearing
21 brief, please detail how you arrived at those figures from
22 the CRU attachments and also provide comparable figures for
23 2014 and 2015. So that's for post-hearing. And with that,
24 I have no further questions.

25 Commissioner Broadbent, any more questions?

1 Okay, okay. Sorry. Okay, yeah. If there are no further
2 Commissioner questions, does staff have any questions for
3 this panel?

4 MS. MESSER: Staff has no questions.

5 COMMISSIONER WILLIAMSON: I'm assuming that
6 Commissioner Johanson doesn't have any more. But if he
7 does, he can ask when he comes in. Staff says they have no
8 questions.

9 Let's just make sure that Commissioner
10 Johanson doesn't have any more questions. Yeah, I'll get to
11 Petitioners next. Okay. Do Petitioners have any questions
12 for this panel? No?

13 MR. KRAMER: We have no questions.

14 COMMISSIONER WILLIAMSON: Okay, thank you.
15 Okay. Come on, David.

16 (Pause.)

17 COMMISSIONER WILLIAMSON: Just an issue, I
18 just want to make sure there are no further questions for
19 you. Okay.

20 (Pause.)

21 VICE CHAIRMAN JOHANSON: Okay. Thank you all
22 for being here today. This panel is dismissed, and this
23 will be followed by the closing arguments of the Petitioners
24 and the Respondents. Petitioners have 17 minutes, that is
25 12 minutes of direct and five minutes of closing, and

1 Respondents have six minutes, a total of six minutes, one
2 minute of direct and five minutes closing.

3 MS. LUTZ: Can we have a five minute break to
4 put our notes together?

5 VICE CHAIRMAN JOHANSON: That would be fine.

6 MS. LUTZ: Thank you.

7 (Whereupon, a short recess was taken.)

8 MR. BISHOP: Will the room please come to
9 order. Closing remarks and rebuttal on behalf of
10 Petitioners will be given by William D. Kramer of DLA Piper
11 US, and Jennifer Lutz of Economic Consulting Services.
12 Folks, you have 17 minutes.

13 CLOSING STATEMENT OF WILLIAM D. KRAMER

14 MR. KRAMER: Thank you. We're going to
15 address first some rebuttal points, and after we've done
16 that I will deliver my closing statement. The witness for
17 Dow Corning, Mr. Brown, flatly testified that U.S. producers
18 do not produce low boron silicon metal. You know, for the
19 reasons -- as our witnesses testified, Globe can and does
20 produce low boron content silicon metal.

21 Furthermore, Globe's domestically produce
22 silicon metal meets Dow Corning's silicon metal
23 specifications, including Dow Corning's boron content
24 limits. Dow Corning has not provided any evidence
25 indicating otherwise. I also want to point out that three

1 other polysilicon producers testified here today. REC
2 Silicon testified that they buy -- the silicon metal that
3 they purchase is a specialized, high quality product, but in
4 their testimony, they made no reference whatsoever to boron
5 content.

6 Similarly, Mitsubishi made no mention of Globe
7 failing to meet or being unable to meet its boron
8 specification. Furthermore, they did not claim that Globe
9 has not qualified in the United States. Instead, what they
10 said is that Globe's product creates some unspecified
11 quality problem, which has prevented it from qualifying by
12 their customers, not Mitsubishi itself.

13 Wacker first described itself as a producer of
14 hyper-pure polysilicon, and in that testimony it made no
15 mention of a need to purchase low boron content silicon
16 metal.

17 Later during the hearing, a Wacker witness
18 testified that Wacker buys low boron material from Globe,
19 that Globe can make low boron but it is higher cost. So I
20 mean the bottom line is that, you know, this is a -- this is
21 a not true this claim regarding low boron content silicon
22 metal and its alleged effect on the market, something that
23 the Commission has never heard in all the years of prior
24 silicon metal proceedings.

25 The second point I'd like to make is that

1 Respondent's expert, Dr. Prusa, flatly testified that the
2 U.S. industry is not experiencing material injury, but in
3 his analysis made no reference whatsoever to the financial
4 condition of the industry. Finally, at the Vice Chairman's
5 request, Mr. Levy explained his analysis, that purports to
6 demonstrate that the Commission should not give way to the
7 underselling data.

8 I want to point out that the comparisons on
9 which that analysis relies are not comparisons between
10 actual prices during particular periods. Instead, what that
11 analysis entails is a comparison of import unit values which
12 in his case consist in substantial part of intra-company
13 transfer prices, transfer prices that do not reflect market
14 price and do not reflect the period concerned, comparison of
15 those to the actual prices of the U.S. product. So we'll
16 elaborate further on that, but that's not a valid
17 comparison. Ms. Lutz is going to continue.

18 CLOSING STATEMENT OF JENNIFER LUTZ

19 MS. LUTZ: I promise I won't talk as long as I
20 did earlier. But I wanted to respond to a couple of the
21 slides from Dr. Prusa's testimony. You heard a lot about
22 the cyclical nature of silicon metal prices and global
23 prices, but you also heard product isn't comparable. It's
24 the farthest thing from a commodity you have. Prices don't
25 transfer from one segment to another, but global prices do.

1 Surprising, and their annotated slides showing
2 prices in different markets and different events. 2015,
3 Ferroglobe merger announced. Well, this supposedly signaled
4 the impending market concentration of a megalith and prices
5 in the U.S. market fell. That doesn't seem to follow in my
6 mind, and presumably such an announcement would comparably
7 affect European prices, and yet European prices were flat
8 after the announcement.

9 Where they note that Mississippi Silicon
10 begins production and prices continue falling, prices fall
11 in Europe as well and fall further than they do in the U.S.
12 market. In falling to the bottom of the market in 2016,
13 Petitioners or Respondents claim that prices started to
14 improve, so the improvement has nothing to do with the case.

15 But if you look at the timing here, prices
16 bump up a little bit, start to flatten out. The petition is
17 filed and prices increase sharply and continue up. It's
18 just not consistent with their story. And then with respect
19 to the slide, there Herfindahl-Hirschman index, which I
20 haven't had to say since grad school, talking about how
21 highly concentrated the market will be if the orders are
22 imposed.

23 Well, this isn't a 337 case. The Commission
24 does not issue exclusion orders. Imports can still enter
25 the market if they're sold at fair prices. But they don't

1 want to talk about prices for a number of reasons. There
2 was some interesting testimony, I hope my notes are correct
3 on who said it. I believe it was Dow Corning had a very
4 nice quote about how purchasers put a premium on diversity
5 of supply.

6 That may be true figuratively, but the pricing
7 data certainly show that it is not literal. If non-price
8 factors accounted for the purchase of the subject imports,
9 you would not expect consistent underselling. In fact, some
10 of the statements with respect to supply diversity had
11 already seen talking about reasons why it needed to
12 diversify supply. Port strikes, transportation problems,
13 plant issues. Well, none of those reasons would provide any
14 basis for not buying from both Globe and an overseas.

15 But MPM gave the real reason why they wouldn't
16 want to buy from both, because you can't get competitive
17 bids from both plants if they're not competing against each
18 other. So again, it comes down to price. Thank you.

19 CLOSING STATEMENT OF WILLIAM D. KRAMER

20 (CONTINUED)

21 MR. KRAMER: I'll present a closing statement.
22 The record in these investigations demonstrates that the
23 domestic silicon metal industry is suffering very serious
24 injury, and that the subject imports from Australia, Brazil,
25 Kazakhstan and Norway are a primary cause of this injury.

1 Imports from each subject country satisfy the
2 Commission's criteria for determining whether subject
3 imports compete with each other and the domestic like
4 product in the U.S. market. The Respondents' claims that
5 subject imports from particular countries do not compete
6 with the domestic product or other subject imports are
7 contradicted by the record facts.

8 In particular, the record does not support the
9 claim that silicon metal from Brazil does not compete with
10 domestic product because of its low boron content, an
11 assertion never made in any previous silicon metal
12 proceeding. The record also does not support the claim that
13 there is attenuated competition between the subject imports
14 and domestic silicon metal. Accordingly, the Commission
15 should reject these arguments. It should analyze the
16 subject imports on a cumulated basis.

17 Silicon metal is a commodity product sold
18 primarily on the basis of price. As the Commission found in
19 its preliminary determination, "There is a high degree of
20 substitutability between domestically produced silicon metal
21 and the subject imports," and "Price is an important factor
22 in purchasing decisions for silicon metal."

23 The record shows that there was a large
24 increase in the volume of subject imports from 2015 to 2016,
25 that continued into part-year 2017. While the volume of

1 subject imports increased, the imports average unit values
2 declined. The imports were sold at very low prices that
3 undersold the prices of the U.S. producers in 66 of 88
4 comparisons.

5 The low priced unfairly traded imports caused
6 lost sales, lost revenues, price depression and suppression
7 and declining market prices. The fact that the imports were
8 often sold on an indexed price basis with steep discounts
9 from published prices and no price floors contributed to the
10 downward price spiral.

11 Wanting to diversify sources of supply or to
12 achieve other business objectives does not justify
13 purchasing dumped or subsidized imports at prices that
14 undercut domestic producer prices. As a result of the
15 influx of low-priced subject imports, the U.S. industry
16 suffered very significant injury, particularly in 2016 and
17 continuing into 2017.

18 This injury to the domestic industry can be
19 seen in key injury indicia examined by the Commission,
20 including sales revenue, cash flow, operating income, net
21 income and employment. This harm cannot be explained away
22 as a mere appearance of injury resulting from Globe's
23 accounting policies. Nor is harm resulting from price
24 undercutting by Globe or Mississippi Silicon.

25 As the Commission found in its preliminary

1 determination, "Intra-industry competition between Globe and
2 Mississippi Silicon does not explain the significant
3 underselling of the domestic industry by the subject
4 imports, and thus does not explain the depression in U.S.
5 producers' prices in 2016 and the decline in the domestic
6 industry's revenues and financial performance."

7 More broadly, none of the arguments made by
8 the parties opposing the petition at the hearing today and
9 in their prehearing briefs undermine the record facts
10 demonstrating that the domestic industry is suffering very
11 serious injury, and that the subject imports are a primary
12 cause of that injury. Thank you.

13 MR. BISHOP: Closing remarks on behalf of
14 Respondents will be given by Stephen J. Orava of King and
15 Spalding, Jonathan T. Stoel and Craig Lewis of Hogan Lovells
16 US. Gentlemen, you have a total of six minutes. Scratch
17 Craig Lewis.

18 CLOSING STATEMENT OF STEVE ORAVA

19 MR. ORAVA: Okay. Steve Orava with King and
20 Spalding on behalf of Dow Silicones. I'd just like to make
21 a couple of points on closing. First, Petitioners' counsel
22 essentially states that Dow is not being truthful in
23 relation to its low boron requirements. I would just say
24 that our witnesses, as you heard testified under oath that
25 Globe and Mississippi Silicon cannot Dow's proprietary

1 specification for low boron.

2 Dow must obtain this supply from its captive
3 Brazilian facility, because the use of charcoal as a raw
4 material rather than coal is necessary to achieve this
5 level. Now Globe is well aware of Dow's high sensitivity to
6 low boron specifications, as it requested a waiver to
7 meeting them, which Dow granted. But as a consequence, Dow
8 was required to bring more imports into its U.S. facilities
9 from Brazil in order to meet the quality requirements of
10 Hemlock's polysilicon.

11 The second I'd just like to say that in Dow's
12 view, the Commission -- if the Commission makes an
13 affirmative determination, the only impact will be that Dow
14 will be succeeded in executing -- that Globe will have
15 succeeded in executing its strategy using trade cases as
16 documented in their many presentations, to force a switch
17 from one foreign source of imports to another, in order to
18 meet the significant excess demand in the U.S. market.

19 Essentially Globe wins, and will increase
20 their U.S. market share beyond it's current level of 80
21 percent, but unfortunately the U.S. industry will lose.
22 Absent offshoring of downstream industries, excess demand in
23 the U.S. market will need to be satisfied. Instead of
24 coming from Brazil, in Dow's view the supply will come from
25 Globe's affiliate in South Africa, significantly increasing

1 concentrations of suppliers and reducing the security and
2 diversity of supply that is critical to Dow's U.S.
3 silicones and polysilicon value chain.

4 And finally the second panel didn't really
5 talk about threat, and I guess from Dow's perspective we
6 really view the U.S. market as providing a lot of
7 opportunities. Dow's continuously looking and exploring
8 expansion opportunities, but those expansion opportunities
9 are contingent on having a secure and reliable source of raw
10 material supply that meets its specification.

11 So we hope that you help to preserve both our
12 existing billions of dollars of investment, both on the
13 silicones and the polysilicon side of our value chains, as
14 well as the opportunities that may be before us in the
15 future. Thank you.

16 CLOSING STATEMENT OF JONATHAN STOEL

17 MR. STOEL: Good afternoon Commissioners.
18 Jonathan Stoel. Thank you for the opportunity to close this
19 area and for your attention today. You've heard from all
20 the witnesses this afternoon that silicon metal is not a
21 commodity, and it's not sold solely on the basis of price,
22 as Petitioners have falsely alleged.

23 What is critical for the Commission to recall
24 is that the U.S. industry cannot meet U.S. demand, and that
25 Petitioner is not a reliable supplier. Petitioner testified

1 incorrectly that -- Petitioner's testimony as to their
2 reliability is directly contradicted by all the witnesses
3 this afternoon. They all said not so to Petitioner's claims
4 that they could satisfy all of their needs.

5 There's been no material injury Commissioners,
6 from subject merchandise. Subject import levels were flat
7 during the Period of Investigation, and the introduction of
8 Mississippi silicon into the market is a sign of optimism.
9 Production and shipments are all rising. Regarding price,
10 the key points are that silicon metal follows independent,
11 long-term global trends.

12 These have been going on for years,
13 Commissioners. This is not about a short-term cyclical
14 industry. If you look up there, you'll see that EU prices
15 were falling long before U.S. prices, and of course U.S.
16 prices then followed. Second, Mississippi silicon entered
17 the market and had a dramatic impact on pricing. We talked
18 a lot about that today, and the 2015 and 2016 data confirm
19 it.

20 Today though, as my friend Mr. Orava
21 testified, prices are rising Commissioners. We're seeing
22 rising prices and rising demand globally in the United
23 States. Regarding impact. The entry of Mississippi Silicon
24 produced some solid results for the industry as a whole.
25 Ferroglobe has bellyached to you today about its financial

1 performance, Commissioners.

2 But I urge you to consider the following: Its
3 costs from affiliated suppliers; its continued 2016 imports
4 from South Africa, even as they shut down U.S. production;
5 and the golden parachute that was provided to Ferroglobe's
6 chief chairman. Last, as Mr. Orava said, there is no threat
7 to the domestic industry. Prices are rising. U.S. demand
8 for silicon metal is increasing and Ferroglobe itself is now
9 operating all of its U.S. production facilities. The future
10 is very bright.

11 In sum, this is not an industry needing your
12 protection. Please don't jeopardize thousands of U.S.
13 downstream jobs to protect the U.S. and global market leader
14 in silicon metal. Thank you.

15 VICE CHAIRMAN JOHANSON: Thank you. I will
16 now make the closing statement. Post-hearing briefs,
17 statements responsive to questions and requests of the
18 Commission and corrections to the transcript must be filed
19 by February 22nd, 2018. Closing of the record and final
20 release of data to parties is due on March 19th, 2018, and
21 final comments are due on March 21st, 2018. This hearing
22 is adjourned.

23 (Whereupon, the hearing was adjourned at 4:10
24 p.m..)

25

CERTIFICATE OF REPORTER

TITLE: In The Matter Of: Silicon Metal From Australia, Brazil, Kazakhstan, and Norway

INVESTIGATION NOS.: 701-TA-567-569 and 731-TA-1343-1345

HEARING DATE: 02-15-18

LOCATION: Washington, D.C.

NATURE OF HEARING: Final

I hereby certify that the foregoing/attached transcript is a true, correct and complete record of the above-referenced proceeding(s) of the U.S. International Trade Commission.

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