

In the Matter of:

Public Meeting

Reporter's Transcript of Proceedings

March 21, 2024



**G R I F F I N G R O U P
I N T E R N A T I O N A L**

3200 East Camelback Road, Suite 177
Phoenix, Arizona 85018

PUBLIC MEETING

In the Matter of:)
)
)
Ecobat Lithium Battery Recycling)
Casa Grande RCRA Part B Permit)
Pre-Application Public Meeting)
_____)

REPORTER'S TRANSCRIPT OF PROCEEDINGS

Casa Grande, Arizona
March 21, 2024
6:13 p.m.

REPORTED BY:
TERESA A. WATSON, RMR
Certified Reporter
Certificate No. 50876

PREPARED FOR:
ASCII/Condensed

(Certified Copy)



1 THE PUBLIC MEETING was taken at 6:13 p.m., on
2 Thursday, March 21, 2024, at the Radisson Hotel Casa Grande,
3 777 North Pinal Avenue, Casa Grande, Arizona, before TERESA A.
4 WATSON, Registered Merit Reporter, and a Certified Reporter in
5 and for the State of Arizona, County of Maricopa, pursuant to
6 the Rules of Civil Procedure.

7

8 PARTICIPANTS:

- 9 Mr. Eric Knowles, Plant Manager
- 10 Mr. Brett Horton, VP Operations and Technical
- 11 Mr. Mike Buckantz, Environmental Technical Support
- 12 Mr. Mark Hoffman, Environmental Director
- 13 Ms. Jennifer Fieber, Associates Environmental, Consultant

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P R O C E E D I N G S

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3 MR. BUCKANTZ: Well, thank you for coming this
4 evening. I'm Mike Buckantz with Ecobat, and we have some others
5 in the room that Eric will introduce. We're here to talk about
6 our lithium battery recycling facility that's going up here in
7 Casa Grande, and it's just now recently become operational. The
8 purpose of the plant is, as the name suggests, to recycle
9 lithium batteries.

10 There's a growing population of lithium batteries
11 out there in everything from, you know, lawn mowers to laptops,
12 and certainly in electrical vehicles, and as those batteries
13 become an increasing portion of the battery population, they're
14 going to need to be recycled, and we are trying to fill the need
15 for those recycling services so that we can take those
16 batteries, as Eric will explain, shred them, separate them into
17 some of their material components.

18 Then we'll turn around and sell to manufacturers,
19 who will most likely turn them back into a lithium battery. And
20 that process will be a lot more effective from an environmental
21 standpoint to -- and especially in the sense of not having to
22 mine lithium material to make batteries in the future, similar
23 to the way lead acid batteries are a closed-loop recycling
24 system.

25 We're here tonight because in order to store



1 batteries at our facility, we need to get a -- what's called a
2 Part B permit from these gentlemen here from the Arizona
3 Department of Environmental Quality. One of the requirements to
4 obtain that permit is to have a pre-application meeting. This
5 meeting was noticed in several different ways, including two
6 different newspapers, and in English and in Spanish, and on the
7 radio.

8 And we're glad that you guys are here, and we're
9 also glad that we're clearly not -- not a particular -- not a
10 particularly controversial source. Otherwise, people would be
11 beating down our doors. So we feel pretty good about that.

12 Before I turn it over to Eric, I will let you
13 guys know that we are transcribing the meeting today. So when
14 the time comes at the end for questions -- and we'll be taking
15 questions. We'll provide those responses in the application
16 document that we'll submit to ADEQ. So please, only one speaker
17 at a time, and if you do ask a question at the end, please state
18 your name and affiliation, and make your comment or ask your
19 question, and then we'll be sure to record that. So Teresa here
20 can get that all done for us.

21 And we appreciate your time this evening, and
22 hopefully we'll make good use of it. And with that, Eric
23 Knowles, who is the plant manager here for the lithium facility.

24 MR. KNOWLES: Thanks, Mike.

25 So here's a little overview of the agenda



1 tonight. So we'll -- we'll start by introducing the staff.
2 We'll discuss the operations of the Ecobat Solutions Recycling
3 Facility. We'll talk about location, operations. We'll talk
4 about the RCRA Part B permit application process and the
5 operations that are subject to the permit requirements. So this
6 will be covered in the slide.

7 Safety, environmental protection features that we
8 have, other facility and environmental permits, and then public
9 participation will be at the end. So there will be some links
10 at the end that I'll -- that I'll put down that you can jot down
11 and/or take a picture of, and then we'll have a public comment
12 period, so...

13 So I am Eric Knowles. I'm the plant manager for
14 our facility here in Casa Grande. We have Mark Hoffman in the
15 back. He's our environmental director. I have Mike Buckantz
16 who was just up there. He's our technical support,
17 environmental. And Jennifer Fieber, she's in the back. She's
18 an associate environmental consultant. We have Brett Horton,
19 our VP of Operations. So he's here to support us, also.

20 So here's a site location. This is an aerial
21 view. We're on 1474 North VIP Boulevard. Approximately 10
22 acres on the site there. It's kind of hard to see, but we've
23 got the storage areas outlined that we'll be talking about here.

24 Here's a -- here's a picture of the front.
25 There's the pre-application meeting sign that we posted out



1 front there for everybody to -- to either email or call, make
2 comments and let them know of this meeting date here, so...

3 So here's the general concept that we'll be --
4 that we'll be going through. The first stage will be
5 collection. So there's a process to collect the different
6 batteries. So we're trying to recycle lithium-ion batteries.
7 We will take those batteries, and then depending on what type of
8 batteries they are, we could potentially need to discharge or
9 dismantle them based on what state they come in.

10 So if -- if they are a larger ESS module, we
11 might have to break it down a little bit to get it through the
12 process. If they come in fully charged, we might need to
13 discharge that battery to put it back into the grid. We could
14 even potentially use that on site. So we would discharge,
15 diagnose, dismantle, if needed, and then after that point, we
16 can take those batteries and we can run them through the
17 shredding process. And that's where we would begin to break
18 them down and then reprocess or refine the minerals out of those
19 batteries.

20 After we crush the batteries, we shred them.
21 They will go through a separations process where we will take
22 the black mass out of the batteries, and we'll put it in a bag.
23 We'll take the copper, the aluminum and the plastics, and those
24 are all payables or streams that we'll have that we can sell
25 back to the market.



1 The dark circle or dark square there is where we
2 will live at our site. Eventually, we can take that black mass
3 off, we can go to hydromet, they can process it further, get it
4 down to the base minerals there, and then put it back into
5 the -- into the battery life cycle, so...

6 So some of the features that we -- that we have
7 at our processing facility is we use inert gas. So we're going
8 to use nitrogen, and we're going to shred under water -- or not
9 under water -- with water, to mitigate the risk of potential
10 thermal runaway. So the nitrogen will make the environment that
11 the batteries are getting -- getting shredded inert so that the
12 fire risk is reduced. The water helps with that, also.

13 It's a closed-loop water system, so at this point
14 we're water negative. We're actually adding -- having to add
15 water into the system to keep the process going. So we won't
16 be -- we won't be bleeding any water into the wastewater system.
17 It will be -- it will be a process where we'll actually use
18 water in small quantities, not very much.

19 We have emissions control. So we have wet
20 scrubbers on the shredding system, and we have -- we have a
21 baghouse on the separation system. So we'll collect any of the
22 VOC emissions, and we'll be able to get any of the particulates
23 out of the shredding system using the baghouse.

24 The operation is indoors. So we're going to run
25 indoors. It's -- when the plant is running, there's very little



1 noise that you can hear outside of the building. You actually
2 have to walk through the door, walk into the building to
3 understand if the plant's running or not.

4 And other than that, there's very -- there's
5 very -- there's no dust, hardly any dust that comes out of
6 the -- out of the process either, so environmentally friendly.
7 It's good.

8 Here's a few examples of some of the -- some of
9 the devices that we'll have. We'll have -- we'll have
10 containers that are similar to those, those orange containers
11 there that we'll store batteries in, and that's part of this
12 process, is getting approved to be able to store batteries on
13 the site.

14 When the batteries come in, they'll go through a
15 really extensive process of inspection when they arrive on site,
16 and then they will get put into the appropriate storage area,
17 depending on the state at which they arrive and the type of
18 battery they are. So we take a thermal camera, we will -- we
19 will inspect them to check and monitor the temperature and make
20 sure that they're okay. Anything that's questionable, we'll
21 probably run right through the process immediately. If it's
22 not -- if it's -- if it's in a good state, we can move it to the
23 appropriate storage area and get it ready for processing when
24 the time comes.

25 We have thermal cameras that are in the -- in



1 the -- in the building that are -- that are positioned and
2 pointing at these storage areas. So we have 24-hour coverage of
3 the storage areas, and we have a monitoring system that will --
4 that will notify us if those -- if we have any thermal event in
5 those storage areas. So if it's 10:00 p.m., nobody's in the
6 building and I have a -- have a fire that's happening, the
7 camera will pick it up, and it will notify me first, and then I
8 can react, and we can -- we can move in. In addition to that,
9 we will have a detailed monitoring process where we inspect
10 these areas every day. We log them and we track those
11 temperatures, so...

12 Here's a few other examples of -- these are our
13 facilities in the UK and in Germany of what the site will look
14 like. So batteries -- batteries come in. This is a device in
15 the upper left that we can -- actually have -- say Lucid's
16 having an EV battery that's getting ready to run away. We can
17 take that device. We can run over there. We can put it in
18 there. We can seal it up. We can bring it back to our
19 facility, and we can process it, and we can transport it safely
20 over the road.

21 The building in the middle, they run batteries in
22 there, and that's where they're going to store them and keep
23 them -- keep them out of the weather. Yeah.

24 Bottom right there, it's a team of people
25 actually dismantling some EVs there. That's the EV required to



1 perform that work, so...

2 MR. HOFFMAN: And I note on those boxes, they
3 have certain requirements in Europe. They have -- they're a
4 little bit of ahead of us, as they legislate a lot in Europe.
5 So to move a battery that could be damaged or have a thermal
6 issue, you have to have a certain certification, and so the box
7 that's on the top left actually is certified in Europe. It's
8 not certified here because there isn't a certification
9 necessarily required. I think we'll see the legislation go that
10 direction, but it is a really valuable service that we offer, in
11 Europe especially, from a community perspective.

12 If there's ever a hot battery or if somebody ever
13 calls, the ability to kind of remove that from the public and
14 bring it to an area where we're able to handle that battery,
15 because once they start getting hot, unless you submerge them
16 under water, they typically don't -- you know, they typically
17 don't reverse.

18 MAYOR MCFARLAND: I'm sorry. This is Mayor Craig
19 McFarland. I was going to hold my questions, but since you're
20 on this piece about Lucid, we've had a couple Lucid fires, and
21 so what's to keep you from having one of those devices at Lucid?

22 MR, HOFFMAN: So we're commercially in
23 conversations with Lucid, and we are continuing to interact with
24 them.

25 MAYOR MCFARLAND: And the fire department?



1 MR. KNOWLES: Yeah. So we're working with the
2 fire marshal right now, also, and we're going to partner with
3 his HAZMAT team to actually do some controlled burns and
4 understand what those lithium fires and how to react and what's
5 effective in that process. So we've actually purchased a couple
6 F500 fire extinguishers, which are lithium specific, and we're
7 going to go through some training with the fire department and
8 those batteries, and we will probably invite Lucid to that
9 event, also.

10 MAYOR MCFARLAND: Okay. That would be great.

11 MR. KNOWLES: So we can build those bridges
12 there.

13 MAYOR MCFARLAND: If we could all communicate,
14 that would be great.

15 MR. KNOWLES: Yeah. Yeah. We've been -- with
16 Ryan Pass, so the fire marshal, we've been -- I've been in
17 contact with him quite often, so...

18 MAYOR MCFARLAND: Okay. Well, you have my card,
19 too, so if you need some help in that area, let me know.

20 MR, HOFFMAN: Will do.

21 MR. KNOWLES: So here's a rendering of what the
22 plant looks like. So it's basically -- this is -- this is a
23 shaker table. So we could dump the batteries on the front of
24 the -- front of this -- front of the process here. It will
25 shake. It will feed these conveyor belts that go into



1 shredders.

2 So we have the first stage of shredding where we
3 cut it down to one-inch shred, and then we have a second stage
4 of shredding where we cut it down into 5/8ths-inch shred, and
5 then it will move down the conveyor. It will split off, and at
6 that point we're just starting to try to liberate the different
7 oils from the batteries so that we can separate them in the
8 shredding -- in the separations process.

9 So this is -- this is a rendering over here on
10 the right of the separations process. So, basically, we're just
11 using vacuum or suction. So we're pulling the dried shred
12 through the process, and we're screening out the black mass at
13 the first stage, and then we start to remove the metals by
14 density. So the heaviers come out first, and then so we'll get
15 the copper out, then we'll get the aluminum, then we'll get the
16 plastic out, and they'll all each go into their individual bags.
17 Then we'll check those bags for quality. We'll give them an
18 asseting, and we'll find a customer for them and put them back
19 on the market, so...

20 So final products. So they're packaged and
21 shipped in SuperSacks. They placed on the pallets, and they'll
22 go loaded on trucks. Not a very complicated process.

23 So some details about the RCRA Part B. The
24 future storage of the spent lithium-ion batteries and lithium
25 coating -- containing materials are subject to hazardous waste



1 permitting provisions and necessitates the submittal of a RCRA
2 Part B permit application.

3 So we have three hazardous waste management units
4 that we're proposing. They're going to consist -- one of them's
5 going to consist of a concrete pad that houses four containers.
6 So two of the containers are designated to receive normal-risk
7 materials. These are typically intact batteries that display no
8 damage, bulging or other signs or stress after arrival at the
9 facility after the initial inspection. So normal batteries,
10 we're just going to put them in these containers. We're going
11 to reprocess them later.

12 Two containers are -- another two containers are
13 going to be designed and designated to receive at-risk material.
14 So normally, any at-risk materials will be immediately
15 processed. So if we identify that there's a battery that's at
16 risk in the -- and the process is running, what we would
17 typically do is take that battery and just go run it through the
18 process and eliminate the risk.

19 If we're not running the process or it's not the
20 right time or the conditions aren't right, we have two
21 containers that we can put these batteries in, and they're
22 equipped with a submerging system, a fire suppression system, an
23 air-conditioning system, and they're fully contained. The fire
24 department will come up. They have a fire department
25 connection. They can flood the containers, and we can recycle



1 that water that they put in there back into the process later.

2 So they are -- they're very nice units.

3 This is a -- this is what one of the normal-risk
4 containers look like. So those are -- those are fire doors
5 there. So they're going to -- they're going to typically be
6 open. So they will -- they will stay open. They'll have a
7 fusible link inside of them. If the fusible link -- if there's
8 a fire, it will separate, and the door will shut, containing the
9 fire inside the unit. With that, it also has fire suppression
10 added to it, and it has -- yeah, just fire suppression.

11 This is the at-risk unit. So it's enclosed. It
12 has thermal imaging cameras in it. It has fire monitoring. So
13 it's hooked up to the fire system at the fire -- if the fire
14 system is engaged, it will send a notice to the fire department,
15 and they'll be able to respond. It has the fire department
16 connections where they can hook up. We have a -- we have a fire
17 hydrant right next to it, and then it is built inside a
18 containment. So all that water that goes into the unit will
19 then go into a sump. Then we can recapture that water, put it
20 in a tank and use it in the process.

21 So they're positioned in kind of the back corner
22 of the property. So we had two choices. We had a lumber yard
23 on the one side, and we have a paver, concrete paver plant on
24 the other side. We chose to put those storage units on the side
25 closer to the concrete pavers.



1 MAYOR MCFARLAND: That's good. It's less
2 flammable.

3 MR. KNOWLES: Yeah. And as well, the outdoor
4 units, they are -- they are going to be monitored by cameras,
5 and they'll have thermal imaging out there, also.

6 So our building fire mitigation is equipped with
7 laser smoke detection, flame detection, and visual/thermal
8 cameras with alert systems. We're monitored 24/7. We have a
9 sprinkler system activated by the detection systems. We have an
10 array of extinguishers. We have CO2, foam and Lithex.

11 We have inbound staging. Each container must be
12 checked for temperature using a thermal gun. Each battery
13 container in this area must be monitored periodically. So we
14 have a -- we have a route that the operators are going to take.
15 They're going to -- they're going to check. They're going to
16 log. They're going to make sure that they're good.

17 So during these checks, if we find something
18 that's out of range or it's getting ready to react, we're going
19 to -- we're going to act accordingly. And we have a tagging
20 system that we can make sure that we know what is -- needs to be
21 moved or needs further treatment.

22 MAYOR MCFARLAND: That's all directly connected
23 to the city fire department?

24 MR. KNOWLES: Yes.

25 MAYOR MCFARLAND: There's a direct connection --



1 MR. KNOWLES: Yes.

2 MAYOR MCFARLAND: -- with you guys?

3 MR. KNOWLES: Yeah. So the monitoring system,
4 anything that happens, it gets reported to the fire department.

5 So at-risk materials and HWMU1, materials at risk
6 of thermal runaway will be immediately processed, placed into a
7 water bath or be stored in an at-risk storage area. Batteries
8 identified as thermal runaway will be recorded, and the material
9 will be isolated away from other containers. If the temperature
10 increases from the last measurement, the material will be
11 re-evaluated and relocated as necessary.

12 The normal-risk materials, they're exhibiting
13 normal temperatures that is not intended to be processed in the
14 shift it is received. It will be stored at the normal-risk area
15 or in an exterior storage area. Batteries identified as thermal
16 runaway will be recorded and the material will be isolated away
17 from other containers, and then if the temperature increases
18 from the last measurement, the material will be re-evaluated and
19 relocated as necessary.

20 So we have -- on the storage areas, 2 and 3
21 outdoor storage areas. Material exhibiting normal temperatures
22 is not intended to be processed in the shift it is received. It
23 will be stored in the normal-risk storage area or in one of the
24 outdoor storage areas. Batteries identified as thermal runaway
25 will be recorded and the material will be isolated away from the



1 containers. Thermal cameras will be used to identify abnormal
2 temperatures. If abnormal temperature changes are observed,
3 material will be immediately processed and relocated to at-risk
4 storage areas.

5 So we -- some of the permits that we -- we have a
6 conditional use permit. There's the permit number. The City of
7 Casa Grande issuing on February 2nd, 2023. We have a valid air
8 permit. The number. Pinal County Air Quality Control District,
9 November 2nd, '23.

10 So we have established a website where members of
11 the public can access documents related to this application
12 process. There it is there. Additional documents will be added
13 throughout the initial permitting process and during future
14 permit modifications as necessary.

15 Today's the pre-application meeting. After the
16 application is submitted to and reviewed by Arizona Department
17 of Environmental Quality, a draft permit will be released for
18 review, and a public meeting will be held.

19 So how does ADEQ monitor hazardous waste
20 recycling facilities? ADEQ is concerned with health and safety
21 issues involving hazardous waste management in Arizona. Under
22 the RCRA, along with state statutes and codes, ADEQ has the
23 authority to monitor and direct businesses that may generate,
24 transport or dispose of hazardous waste in Arizona. The Waste
25 Programs Division implements state and federal hazardous waste



1 laws pursuant to the delegation from the EPA.

2 The Division is responsible for effectively
3 implementing standards for the safe generation, management,
4 treatment, storage, and disposal of hazardous waste. Specific
5 responsibilities include: Inspection and compliance.
6 Conducting routine follow-up and initial compliance inspections,
7 responding to public complaints and other agency referrals to
8 ensure the hazardous wastes are safely managed and properly
9 disposed.

10 Permits and plan review. Permitting facilities
11 that treat, store or dispose of hazard waste and reviewing
12 require plans and monitoring reports.

13 Outreach and compliance assistance. Educating
14 and reaching out to the regulated community and the general
15 public. ADEQ has performed a RCRA facility assessment to
16 document the condition of the site prior to the initiation of
17 the lithium recycling activities. Once finalized, the RFA will
18 be placed on the Ecobat documents website.

19 We're at public comment period.

20 MR. BUCKANTZ: All right. So if you have any
21 comments or questions that you'd like us to record so that they
22 get included as part of the application, please take care of
23 those at this time. And as I said at the beginning, please
24 state your name and affiliation for the record.

25 MR. SHAFFER: My name is Randy Shaffer, with the



1 City of Casa Grande Public Works.

2 On that closed-loop system, in an emergency,
3 where would the water in that environment with the chemicals and
4 all that have to discharge to?

5 MR. KNOWLES: There is a -- there's a containment
6 and a sump that it goes to, and it stays -- it stays inside the
7 container.

8 MR. SHAFFER: And then the -- for my -- just so
9 I'm clarifying and understanding, on the boxes, they have AC for
10 the heat, so to mitigate the explosion risk on that?

11 MR. KNOWLES: Uh-huh.

12 MR. SHAFFER: Okay.

13 MAYOR MCFARLAND: So my name is Craig McFarland,
14 Mayor of the City of Casa Grande. So I look at it from a couple
15 different perspectives. I'm just curious as to -- I'm going to
16 have several questions, so I'll ask one question at a time.

17 What is your -- what is your potential water use?
18 How much?

19 MR. KNOWLES: I don't think we have an exact
20 number yet, but it's very minimal.

21 MAYOR MCFARLAND: Just if you happen to have a
22 fire or something, can you recycle that --

23 MR. KNOWLES: Yeah. If we have a fire and we
24 have to use any water that we use in these storage units, we'll
25 be recycling --



1 MAYOR MCFARLAND: Recycled. Okay.

2 MR. KNOWLES: -- through the process.

3 MAYOR MCFARLAND: Okay. Other than that, it's
4 not a whole lot of water?

5 MR. KNOWLES: No.

6 MAYOR MCFARLAND: Okay. And then transportation.
7 So right now we're dealing with a lot of new TSMC chemical
8 companies coming into town, and Lucid is here, a lot of truck
9 traffic. So I'm trying to work with our local industry. And
10 let me preface. I support what you guys are doing. Okay? So
11 I'm not here to not support it. I'm here to support what you're
12 doing. I'm just trying to -- trying to understand so that I can
13 help mitigate issues that might come up that I get challenged
14 with, especially when it comes to transportation of hazardous
15 materials.

16 So we -- so we have a lot of that coming, and so
17 as that approaches, I'm trying to put together a plan, a
18 transportation plan, and you guys might be helpful in putting
19 that together, because we just spent \$10 million on Thornton
20 Road expansion, between us and the County, to build this nice,
21 new five-lane road down to I-8. When Wal-Mart came in, they
22 said, oh, yeah. We're going to go down to I-8, and we're going
23 to go around town. Well, that didn't happen. Okay? So the
24 truckers go where the truckers will go, unless we tell them
25 where they need to go.



1 MR. KNOWLES: Yeah.

2 MAYOR MCFARLAND: And so I want to try and build
3 a plan that you guys are part of, and that between the chemical
4 companies and the import -- I'm not worried about the export of
5 your product. I'm worried about the import of your product.

6 MR. KNOWLES: Yeah.

7 MAYOR MCFARLAND: All right. So the product
8 coming into the city. That's the most unstable part. And so
9 can we work together to make sure we have a good transportation
10 plan that is followed and managed and, quite frankly, it's going
11 to have to be demanded of the truckers. If you have to pay them
12 a premium to come down I-8 and up Thornton, whatever it is,
13 because a lot of times they're paid, you know, to get there
14 quickly, and so we need to make sure we -- because we need to be
15 able to tell our public, hey, we have safe routes of
16 transportation of this hazardous material, and it's not going
17 down Cottonwood to Pinal and through the major part of my city.
18 Okay? Where my citizens live. And so I want to be able to tell
19 them that we have this plan and that we're going to be putting
20 that together.

21 That's probably my biggest concern, and you guys
22 are just one piece of it. But again, I want to support all of
23 my -- all of our industry. I want to support your process,
24 because I think it's important, and I think it -- you know, in
25 the future, it is going to be, you know, the future of recycling



1 for lithium batteries. And lithium batteries are not going
2 away.

3 So that being said, I'll let you answer that
4 question, and then I just have one more question.

5 MR. BUCKANTZ: Mr. Mayor, I'll take that one.

6 You're definitely speaking to the choir on this
7 one. In fact, one of the requirements that that ADEQ has in
8 this application is for us to develop a traffic pattern and to
9 educate the truckers on that traffic pattern, with an emphasis
10 on avoiding places like schools, hospitals, what I think of as
11 sensitive receptors and we can certainly share our thoughts and
12 accommodate your thoughts into that before we submit this
13 application. And I'll suggest we find a time to get together to
14 go over that so we can find a mutually-agreeable traffic pattern
15 so that we only have do that one time in the context of this
16 permit application.

17 MAYOR MCFARLAND: Yeah. And I would love to sit
18 down with NRS, too. NRS is a logistics transportation -- high-
19 end chemical transportation company. They're building a new
20 depot right next to Kohler, and that depot isn't too far from
21 where you guys are at. And so between all of us, we could come
22 up with a real plan, and we'd be happy to mark that route, and
23 then with your help, we could, you know, make sure that the
24 truckers use that route. That's the key is to really make sure
25 that it gets used.



1 You know, like I said, we just spent a lot of
2 money on Thornton interchange, and we're spending another about
3 5 million on the northern piece that takes it all the way up to
4 Cottonwood, which then would incorporate where you guys would
5 come out on VIP and the Gila River Highway -- or the 84,
6 Highway 84, and then come south to Thornton, because Thornton
7 is -- should be our truck route. That should be our truck route
8 exiting our industrial park.

9 MR. BUCKANTZ: Well, we'll reach out and try to
10 schedule something in the very near future, because we're
11 getting to a point where we're hoping to submit this
12 application --

13 MAYOR MCFARLAND: Yeah, and I don't want to slow
14 you guys down.

15 MR. BUCKANTZ: -- in the relatively near future,
16 but it's a timely discussion, and we can certainly get with you
17 probably in the month of April to see what will work best.

18 MAYOR MCFARLAND: All right. That will be great.
19 You have my cell phone number and my email, so...

20 MR. BAER: (Inaudible.)

21 COURT REPORTER: I'm sorry. I can't hear you
22 back here.

23 MR. BAER: The RCRA Part Bs do require
24 transportation management plans, which he already covered. So
25 no. Absolutely a valid concern, and that's something the



1 Department does consider.

2 MAYOR MCFARLAND: Well, especially since we're
3 starting to develop all these TSMC suppliers. I mean, we have
4 high-end hydrogen peroxide. We've got all kinds of different
5 chemicals that are being produced or going to be produced here
6 in Casa Grande, and I'm trying to get ahead of it so that before
7 it's manufactured, before we're there, before it's coming into
8 Cottonwood and up my -- you know, Pinal Avenue, which is right
9 in the heart of our town, we -- let's -- we have a conversation.

10 I want to include the industry. I want the
11 industry to be part of the solution, not to be a part of the
12 problem, and so I'm trying -- like I said, I'm trying to make
13 sure we're collaborating and working together on it. I'm not
14 here against it. I'm here to help make sure we can make it
15 happen.

16 MR. BUCKANTZ: Very well.

17 MAYOR MCFARLAND: So that's my goal. I'm very
18 pro business, very pro, you know, industrial development. We've
19 done a lot of it here in Casa Grande over the last eight years
20 of my mayorship. So it's important to me that we make sure we
21 can continue it and make sure that it happens.

22 My only last other concern is in your process,
23 are you thinking of forward -- and you probably are -- as these
24 EVs and the EV batteries, which are massive, are not -- are
25 different than your computer batteries, right?



1 MR. KNOWLES: Uh-huh. Yeah.

2 MAYOR MCFARLAND: They're massive. And so as
3 they come offline, is your system -- is your system prepared to
4 handle that kind of -- this is just -- this is a personal
5 question now from me. Is it prepared to handle that? Because I
6 think that's going to be important down the road. It's kind of
7 like I tried to get our gas stations to put in charging
8 stations, because I think, you know, they're behind the eight --
9 you know, they're way behind in terms of anticipating this
10 electric vehicle push that's coming and being able to charge
11 America, if you will. Pardon the use of somebody else's name.
12 But how can we make sure that the batteries as they come offline
13 and come off...

14 MR. KNOWLES: Yeah. We're looking at a
15 multi-phased approach to this.

16 MAYOR MCFARLAND: Because it has to be a
17 different process. I mean, these things are massive compared to
18 what you guys are processing today.

19 MR. KNOWLES: Yeah. We have the advantage, too,
20 with Germany and the UK of actually being a little bit ahead of
21 us, too, to learn how to process those, but yeah, we do have a
22 plan in place to scale up and handle bigger and better things.

23 MAYOR MCFARLAND: Okay. Again, that was just
24 my -- that's a personal question, so...

25 MR. KNOWLES: Yeah.



1 MAYOR MCFARLAND: Okay. Yeah. I appreciate it.
2 So thank you. Thank you.

3 MR. BUCKANTZ: Thank you.

4 MR. BAER: Terry Baer, ADEQ.

5 What is your planned hours of operation? Are
6 they going to be, like, a Monday through Friday, one shift? Are
7 you going to be kind of 24/7?

8 MR. KNOWLES: I guess it's what the market
9 dictates and what's available to us. Right now, it's going to
10 be Monday through Friday, eight hours. We could add a second
11 shift. We could add a third shift if there's enough out there
12 to work, so...

13 MR. BAER: So along that line, with the
14 transportation management, what is the expectation if a load
15 tries to deliver after hours? Is it they have to wait and come
16 back or is there going to be a staging?

17 MR. KNOWLES: Yeah, we probably have
18 shipping/receiving day shift only. If we did run a second or a
19 third shift, it would probably just be the production.

20 MR. BAER: So the only reason I bring it up is
21 because we have seen that's where the most risk tends to be, is
22 it's loads that you're going to receive before you have a chance
23 to inspect them.

24 MR. KNOWLES: Uh-huh.

25 MR. BAER: You know, so let's say a trailer is



1 showing up on a Saturday, and you're not going to put eyes on it
2 until Monday morning.

3 MR. KNOWLES: Yeah.

4 MR. BAER: So just something that we have seen
5 for the Department that is something to be aware of as you kind
6 of move forward in developing that.

7 MR. KNOWLES: Yeah, definitely.

8 MR. BUCKANTZ: And, Terry, our other facilities
9 that process other types of batteries here in the United States,
10 this is an issue that we recognized, and basically, we do it on
11 an appointment basis. People can't just come and show up.

12 MR. BAER: Okay.

13 MR. BUCKANTZ: They have to make an appointment
14 and schedule inbound trucks.

15 MR. BAER: That's really good.

16 MAYOR MCFARLAND: Mike, but can you guys help
17 them manage that a little bit? Because I see Terry's point is
18 that the trucker picks up a load, and he leaves, and he's
19 delayed or he doesn't get here in time, and then it sits across
20 from Wal-Mart in a dirt lot waiting for you guys to open, and
21 then something ignites and we have a small disaster on our
22 hands.

23 MR. BUCKANTZ: Well, I don't think that I could
24 promise you that we can control what a trucker, especially an
25 independent trucker, is doing with their truck. What we can



1 manage and what we will manage is when they're -- when they're
2 scheduled to arrive at our facility and, you know, basically
3 make it inefficient or uncomfortable for them to schedule their
4 time such that they're not arriving just on time.

5 MR. BAER: I mean, you mentioned about having the
6 cameras, the thermal cameras, and I'm just -- is it possible to
7 have a staging area for, like, loads during off hours that may
8 be on camera. Again, and the Mayor's point, I mean, then that
9 way you don't have to worry about --

10 MAYOR MCFARLAND: That's not a bad idea.

11 MR. BAER: -- someone parking on the side of
12 Pinal Avenue or, you know, something like that. Like I said --

13 MAYOR MCFARLAND: Still thermal, even inside a
14 truck.

15 MR. BUCKANTZ: And, Terry, I think that that's a
16 discussion we would like to have with you guys --

17 MR. BAER: Sure.

18 MR. BUCKANTZ: -- about what you guys think is a
19 reasonable amount of time for staging. We do have a truck bay
20 that can hold, I think, five, six --

21 MR. HORTON: Eight.

22 MR. BUCKANTZ: -- eight trucks -- thank you,
23 Brett -- at a time that, you know, we could certainly consider
24 having thermal cameras pointing in that direction, and so as we
25 go through this process, I think we should engage you guys in a



1 discussion as to how you would like to see that managed and
2 whether you would allow us to use that as a staging area for off
3 hours or --

4 MR. BAER: Okay.

5 MR. BUCKANTZ: -- unscheduled deliveries.

6 MR. BAER: Yeah. Absolutely. I mean, the
7 Department wants to work with you guys as to what's effective.
8 And so, again, glad to -- the Mayor mentioned Lucid, but Nikola
9 is over in Eloy as well, and unfortunately, the Department has
10 been involved with several fires at that facility, and right now
11 the plan is is just pull the vehicle off to the side and just
12 kind of let it burn, you know, until it kind of burns out. So
13 that's generally when we see the public, you know, get
14 concerned.

15 So glad to have you guys here. Glad to see these
16 boxes from the UK, because obviously this is not something that
17 I've heard of any consideration in any of the fires that the
18 Department has been involved in. So it's a step in the right
19 approach for where I think the industry is going.

20 MAYOR MCFARLAND: Yeah. And again, we're here in
21 support. We want to make sure we're all together. Appreciate
22 the State being here, too, and you guys at Ecobat and, you know,
23 the City being here as well. So it's important, I think, for
24 all of us to make sure we're communicating and make sure --
25 because this is obviously kind of new territory, I think.



1 You know, recycling is not new, but recycling,
2 you know, these kinds of batteries and then especially the size
3 of -- that are coming. I mean, you guys are just scratching the
4 surface, because if we go -- if GM goes 35 percent or 50 percent
5 or 60 percent of electric vehicles, the wave is coming. So --

6 MR. BUCKANTZ: We certainly hope so.

7 MAYOR MCFARLAND: We need -- and that's the
8 biggest concern I hear from people with electric battery --
9 electric vehicles is what do we do with the batteries. That is
10 the single biggest concern that I hear from my constituents when
11 I talk to them about EV and where we're going with EV. So, you
12 know, it's in our face here. I mean, we -- we've got 2,500
13 employees working for an electric vehicle company that builds a
14 nice car, but it has a giant battery in it. It's a giant
15 battery.

16 MR. KNOWLES: Yeah.

17 MAYOR MCFARLAND: It's three-quarters of the
18 weight of the car.

19 MR. BAER: The other question I had is I love the
20 process diagram. I believe that's the first time I've seen it.
21 Is there any waste generation coming out of that -- let me kind
22 of caveat that a little bit. So typically, outside of the EV
23 vehicles, most lithium cells are typically taped or packed in
24 baggies, stuff like that. Is -- does your process address that?
25 Does that all become waste as a part of the shredding? I just



1 wasn't sure how you handle that.

2 MR. HORTON: So Brett Horton.

3 So most of the -- like, if you look at the bulk
4 packaging, like, what would be around the batteries, the drums,
5 metal, plastic, and so most of those will be returned or will be
6 recycled. If they're overly damaged, then that will be a waste,
7 and it will be normal shipping waste. If a 5 -- you know,
8 50-gallon drum is damaged to a point where it can no longer
9 (inaudible).

10 The material attached to the battery will either
11 be removed during the dismantling process or will go through the
12 process. The material that comes off of either of those process
13 is segregated between plastic, aluminum, steel, and so we've
14 reached out to a couple of the large scrap metal recyclers for
15 those -- for what you would call the secondary products.

16 MR. BAER: Uh-huh.

17 MR. HORTON: So we're working through how none of
18 our streams will be waste streams. Now, some of the current
19 light plastic, it's a mixed light plastic, we haven't found an
20 avenue for. So right now, we have -- we have 5 percent of what
21 comes out of our product that we're still looking for where
22 we -- where that can go into our recycling, but we're assuming
23 that either one will be a waste stream, because it's a mixed
24 light plastic, and we haven't found anyone that's interested in
25 that stream, but we continue to reach out and put that product



1 as available to hope to find someone that is interested.

2 MR. BAER: And that was where my curiosity was,
3 is typically, you know, most of these are LDPEs, you know,
4 low-density polyethylene.

5 MR. HORTON: Yeah.

6 MR. BAER: And so, one, they're really bad for
7 shredders, because they tend to clog up the system --

8 MR. HORTON: Yeah. Extremely quick.

9 MR. BAER: Yeah. So the question was is, like,
10 can we move it forward or if it shredded, then you have to
11 characterize it and see if it's characteristic for anything
12 obviously being mixed with the black mass and everything else.
13 So that's what I'm trying to understand --

14 MR. HORTON: So it goes all the way through our
15 process, so -- and we work to downsize that really effectively,
16 and then with the different separation equipment, we separate
17 that from all of the metals.

18 MR. BAER: Okay.

19 MR. HORTON: But then that is -- that is an
20 outlet stream of a finely shredded light, light plastic.

21 MR. BAER: Yeah. Okay.

22 MR. HORTON: As an outlet stream.

23 MR. BAER: Thank you.

24 MR. BUCKANTZ: Any others?

25 ADEQ, with your permission, if you're comfortable



1 with it, we'll call the meeting closed.

2 MR. BAER: I believe so.

3 MR. BUCKANTZ: Then thank you very much. Good
4 night.

5 MR. KNOWLES: Thank you all for coming.

6 (Public meeting concluded at 6:57 p.m.)

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1 STATE OF ARIZONA)
) ss.
 2 COUNTY OF MARICOPA)

3

4 BE IT KNOWN that the foregoing public meeting was
 5 taken before me; that I was then and there a Certified Reporter
 6 in and for the County of Maricopa, State of Arizona; that the
 7 proceeding was taken down by me in stenographic shorthand and
 8 thereafter transcribed under my direction; and that the
 9 foregoing 33 pages contain a full, true and accurate transcript
 10 of all proceedings and testimony had and adduced upon the taking
 11 of said public meeting, all to the best of my skill and ability.

12 I FURTHER CERTIFY that I am in no way related to or
 13 employed by any of the parties hereto, nor am I in any way
 14 interested in the outcome hereof.

15 DATED at Phoenix, Arizona, this 29th day of April
 16 2024.

/s/ Teresa A. Watson

TERESA A. WATSON, RMR
 Certified Reporter
 Certificate No. 50876

* * * * *

17 I CERTIFY that GRIFFIN GROUP INTERNATIONAL has
 18 complied with the ethical obligations set forth in ACJA 7-206
 19 (J)(1)(g)(1) through (6).

/s/ Pamela A. Griffin

GRIFFIN GROUP INTERNATIONAL
 Registered Reporting Firm
 Arizona RRF No. R1005

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