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1 building full of hydrogen that's being vented by the
2 hole --

3 BRIAN SHERON: Right.

4 CHUCK CASTO: -- that one hole, that,
5 then they need more holes.

6 BRIAN SHERON: Right.

7 CHUCK CASTO: Or they're going to blow
8 that building up.

9 BRIAN SHERON: Right.

10 CHUCK CASTO: So they, you know, that's
11 another priority that they had that's just too far
12 down the road. They wanted to open up another hole
13 in Unit 2's reactor building because they're fearful
14 that the hole that's there that's venting the
15 hydrogen isn't big enough. And they had some
16 absolutely amazing ideas about how to open that
17 hole, to open that hole more. But that's the other,
18 that's the other thing that they need, is to open
19 the Unit 2 reactor building's roof or hole.

20 You know, I would say, my, my own
21 thought is that if I had to do this, I would go to
22 the opposite side of the building where the spent
23 fuel pool is and I would take a helicopter and I
24 would drop something right through the roof, you
25 know, and just cave in the roof. But that's just

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1 my, my thoughts.



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8 So I, you know, if we have any thoughts
9 on how to open up a hole on, a bigger hole on Unit
10 2, that's somewhat of a priority. I mean, they're
11 worried about it because, honestly, they don't want
12 to see that on CNN if that building goes.

13 TRISH HOLAHAN: Chuck?

14 CHUCK CASTO: Yes?

15 TRISH HOLAHAN: This is Trish again.
16 The other day, we were asked to have the
17 force-on-force guys consider ways to remove the roof
18 or a portion of the roof non-explosively. Is that
19 still a concern?

20 CHUCK CASTO: Yeah. That's what I'm
21 talking about. You know, you either -- you know,
22 somehow -- you don't have a remove the whole roof.
23 You have to -- you know, they just don't know if
24 that hole that's there is enough to vent all the
25 hydrogen because I think that hole is a floor lower

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1 than the spent fuel pool.

2 TRISH HOLAHAN: Okay.

3 CHUCK CASTO: So, you know, they're
4 uncertain whether that hole is big enough to vent
5 all the hydrogen. You know, there's really no way
6 of knowing.

7 TRISH HOLAHAN: So is there a, a small
8 hole there now?

9 CHUCK CASTO: Yes. The explosions in
10 the other buildings punched, put a hole in one of
11 the panels on the reactor building.

12 TRISH HOLAHAN: Okay, in the side of the
13 wall. Okay.

14 CHUCK CASTO: Yeah, in the side. So
15 their concern is, you know, how do we make a bigger
16 hole?

17 BRIAN SHERON: If you make a spark,
18 you're going to blow it --

19 TRISH HOLAHAN: Yeah, and we were
20 thinking of having a helicopter with a grappling
21 hook or putting a, putting a Bambi bucket on the
22 roof, which has 5,000 gallons of water and --

23 CHUCK CASTO: Yeah. That's what I was
24 thinking is collapse it.

25 TRISH HOLAHAN: Yeah.

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1 DAVE SKEEN: And we was talking about
2 that before the last time I was with Chip, I think,
3 Chuck. And that's what we came up with, is you
4 could take a Bambi bucket, drop it from the right
5 height, and that ought to go right through the
6 corrugated metal of that roof.

7 CHUCK CASTO: That, that roof is not
8 just corrugated metal. Believe it or not -- I have
9 never seen this before -- but that roof is concrete.

10 BRIAN SHERON: Yeah. They said three
11 inches or more of concrete, the roof.

12 TRISH HOLAHAN: Oh, okay.

13 DAVE SKEEN: Oh. That's a whole
14 different animal.

15 BRIAN SHERON: If you make a, if you
16 make a spark, you're liable to ignite that stuff
17 anyway.

18 CHUCK CASTO: Yeah. That's what we were
19 saying about the saw, you know, the, the helicopter
20 in the saw. Yeah, that was . . .

21 Well, the other thing is you can fly the
22 helicopter and, and the bucket of water and go
23 through the side of the building and just, you know,
24 swing it into the side of the building.

25 JOHN MONNINGER: But, but there's

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1 hydrogen right off light-off. Even a little sparkle
2 take it off. So a destructive force, you know, even
3 if it's not an explosive could easily spark stuff up
4 through all the blasting, but --

5 CHUCK CASTO: And again, their concern
6 is not only the damage it does to the building but
7 the damage it does, you know, politically if, if
8 that building goes up.

9 MALE PARTICIPANT: (Off mic).

10 CHUCK CASTO: Yeah, we can do it, and
11 another big explosion wouldn't be good.

12 So we, I've talked a lot.

13 MARTY VIRGILIO: I, I, I see we have
14 three actions and you have two.

15 Our first action is to arrange the
16 conference call on the sale accumulation. Our
17 second action is to start the development of a pilot
18 on the target set approach, based on the equipment
19 that they need to restore normalcy and the radiation
20 fields that they're experiencing in the plant. And
21 the third item we have is to brainstorm a little bit
22 here about options for increasing the size of the
23 hole in secondary containment.

24 Your actions, the first action for you,
25 is to suggest that they substitute fresh water in

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1 their suction supply. And your, your second action
2 is to ask them how they're coordinating support from
3 other countries; for example, the French supplied
4 robots.

5 Does that sound like a deal?

6 JOHN MONNINGER: That sounds like a
7 deal. Can I throw one variation maybe?

8 MARTY VIRGILIO: Go ahead, John.

9 JOHN MONNINGER: Yeah. I understand
10 there will be a conference call with an expanded
11 group with the notion they want a shorter-term
12 meeting. We would, I propose we would include, go
13 forward with the shorter-term meeting but include
14 whoever's there from the Reactor Safety Team and
15 then we could have second, third meetings, et cetera

16 So we, we could get the landscape from
17 the engineers, the techies maybe, at this first
18 conference call with whoever's there in the Reactor
19 Safety Team.

20 CHUCK CASTO: [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 MARTY VIRGILIO: Well, if you've got
24 operations centers manned in other locations, it
25 shouldn't be that much of a chore to tie in other

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