

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA
HONORABLE DAVID O. CARTER, JUDGE PRESIDING

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ECHOSTAR SATELLITE CORP., et)	
al.,)	
)	
Plaintiffs,)	
)	
vs.)	No. SACV 03-950 DOC
)	Day 16, Volume IV
NDS GROUP PLC, et al.,)	
)	
Defendants.)	
_____)	

REPORTER'S TRANSCRIPT OF PROCEEDINGS

Jury Trial

Santa Ana, California

Tuesday, May 6, 2008

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Federal Official Court Reporter
United States District Court
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Santa Ana, California 92701
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EchoStar 2008-05-06 D16V4

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SANTA ANA, CALIFORNIA, TUESDAY, MAY 6, 2008

Day 16, Volume IV

(2:59 p.m.)

(In the presence of the jury.)

THE COURT: All right. The jury's present. All counsel are still present, and the parties.

Mr. Peled, if you would be seated.

Counsel, thank you for your courtesy.

This is redirect examination on behalf the EchoStar and NagraStar.

MR. WELCH: Your Honor, we have no further questions of Dr. Peled.

THE COURT: Okay. Counsel, anything further?

MR. SNYDER: Nothing further, Your Honor.

THE COURT: All right. Can I start releasing witnesses so that they can return at this point? Do all parties feel confident that I can release Dr. Peled and Andre Kudelski?

MR. SNYDER: Yes, Your Honor.

MR. HAGAN: Yes, Your Honor.

THE COURT: Would you inform Andre Kudelski that he can return to Switzerland.

Dr. Peled, you can return to England.

THE WITNESS: Thank you, Your Honor.

THE COURT: You may step down.

1 (Witness excused.)

2 THE COURT: Counsel, you have a final stipulation,
3 I believe, and then a witness.

4 MR. HAGAN: We have a final stipulation.

5 THE COURT: Go over and get the final stipulation.

6 (To the jury:) They're going to read a
7 stipulation to you.

8 All right. Now, Counsel, did you want to read the
9 stipulation into the record?

10 MR. HAGAN: Yes, Your Honor.

11 THE COURT: Do you have a copy of this, or is this
12 the only copy?

13 That's fine.

14 Kristee, this is our copy.

15 You must have another copy. You can read from
16 your copy.

17 That's ours. File it, please. Thank you.

18 STIPULATION

19 MR. HAGAN: Plaintiffs' EchoStar Communications
20 Corporation; EchoStar Satellite LLC, formally known as
21 EchoStar Satellite Corporation; EchoStar Technologies
22 Corporation; and NagraStar LLC; collectively EchoStar, and
23 defendants NDS Group PLC and NDS Americas, Inc.,
24 collectively NDS, hereby jointly stipulate as follows with
25 respect to Exhibits 1510 and 2600:

1 Number one, Exhibit 1510 represents all available
2 subscriber and access card information from EchoStar's
3 subscriber management database related to a specific
4 EchoStar access card bearing identification No. S0003804033.

5 Two, Exhibit 2600 represents all available
6 subscriber information from EchoStar's subscriber management
7 database related to the specific EchoStar satellite
8 television receiver bearing identification No. R0017942225
9 and R0019355010.

10 Exhibit 2600 also represents all available
11 subscriber information from EchoStar's subscriber management
12 database related to the specific EchoStar access cards
13 bearing identification Nos. S0000121761 and S0002017060.

14 That concludes the joint stipulation between the
15 parties. And at this time we would formally offer
16 Exhibit 2600 on behalf of EchoStar and Exhibit 1510 on
17 behalf of the defendants into evidence.

18 THE COURT: Any objection, Counsel?

19 MR. SNYDER: No objection.

20 THE COURT: Any objection, Counsel?

21 MR. HAGAN: No objection.

22 THE COURT: Both items are received, 1510, 2600.

23 The stipulations just read between counsel are a
24 binding agreement. Their stipulation before them is a piece
25 of evidence that we are to accept.

1 (Exhibit No. 1510 received in evidence.)

2 (Exhibit No. 2600 received in evidence.)

3 THE COURT: Counsel, is there anything further in
4 rebuttal on behalf of EchoStar and NagraStar?

5 MR. HAGAN: No, Your Honor.

6 THE COURT: Are you resting at this time?

7 MR. HAGAN: We are.

8 (Plaintiffs rest rebuttal.)

9 THE COURT: Now, Counsel, you have surrebuttal; is
10 that correct?

11 MR. SNYDER: Yes, Your Honor.

12 THE COURT: All right.

13 (To the jury:) Could you -- my apologies. We're
14 going to do this one by one until we're done today, I
15 promise you. If you would go back to the jury room for just
16 a moment. I'm sorry for the inconvenience. I want to speak
17 to counsel.

18 I think you'll be coming out shortly.

19 (Jury recesses.)

20 (Outside the presence of the jury.)

21 THE COURT: All right. Counsel, the jury's no
22 longer present.

23 On behalf of EchoStar you wanted to raise some
24 issue or problem concerning the next witness, whose name, in
25 surrebuttal, is?

1 MR. SNYDER: Dan DeHaan.

2 THE COURT: How do I spell his last name?

3 MR. EBERHART: D-E, H-A-A-N.

4 THE COURT: And what is the concern about the
5 gentleman? What is he testifying to?

6 MR. HAGAN: Your Honor, we were informed that the
7 defendants intended to call Mr. DeHaan this morning. They
8 also referenced it last night, that it may be a possibility
9 to rebut certain statements that may be offered by
10 Mr. Kudelski.

11 I deposed Mr. DeHaan. I also participated in the
12 direct examination of Mr. Kudelski and sat through the
13 cross-examination of Mr. Kudelski. And I did not see any
14 information from Mr. DeHaan's deposition testimony that
15 could any way rebut Mr. Kudelski's testimony.

16 So if the defendants can articulate what basis
17 they are calling Mr. DeHaan on, then I would be better able
18 to respond to the Court on that issue.

19 THE COURT: I'll do it the quick way. Go find
20 Mr. DeHaan, bring him into court. We'll have an
21 out-of-the-presence hearing right now and find out what
22 those questions are. It's rebuttal, surrebuttal, but it has
23 to make some sense.

24 Would you get the gentleman, please.

25 And that way I'll hear all of them, and we'll see

1 if it's truly surrebuttal.

2 Counsel, what is your offer of proof, while we're
3 waiting?

4 MR. EBERHART: Mr. DeHaan was directly employed in
5 Nagra's BBCO project that Andre Kudelski testified about.
6 Mr. DeHaan will testify that that project involved the use
7 of a FIB, scanning electron microscope, disassembly of ROM
8 code, extraction of ROM code, and that reports were prepared
9 of that work.

10 (The following testimony was taken outside
11 the presence of the jury:)

12 THE COURT: All right. Sir, thank you very much.
13 If you would step forward, please.

14 Would you raise your right-hand.

15 DANIEL DeHAAN, DEFENSE WITNESS, SWORN

16 THE WITNESS: I do.

17 THE COURT: Thank you, sir. If you would please
18 be seated.

19 Now, if this is going to take a long time, I'm
20 going to send the jury home until tomorrow.

21 MR. EBERHART: I expect it's 15 minutes of
22 testimony, Your Honor.

23 THE COURT: Let's hear your 15 minutes, then.
24
25

DIRECT EXAMINATION

1
2 BY MR. EBERHART:

3 Q. Mr. DeHaan, where are you currently employed?

4 A. NDS Americas in Costa Mesa.

5 Q. And where were you employed immediately prior to your
6 employment at NDS?

7 A. Nagra USA.

8 Q. During what years were you employed by Nagra USA?

9 A. 2001 through 2003.

10 Q. What did you do for Nagra USA during the course of your
11 employment?

12 A. I was a system engineer for them.

13 Q. Are you familiar with something called the "BBCO
14 project"?

15 A. Yes, I am.

16 Q. What is the BBCO project?

17 A. The BBCO project was a project intended to produce a
18 forced simulcrypt system that was compatible with the
19 Motorola conditional access system.

20 Q. And was the BBCO project the focus of your work for
21 Nagra USA?

22 A. Yes, sir.

23 Q. Was that true for the entirety of the two years you
24 worked for Nagra USA?

25 A. Yes.

1 Q. What do you mean by a forced simulcrypt?

2 THE COURT: Counsel, I know what that is. Why
3 don't you proceed.

4 BY MR. EBERHART:

5 Q. Okay. Do you have any understanding as to whether this
6 project had been approved by the Kudelski Group in
7 Switzerland?

8 A. Yes.

9 Q. What was your understanding?

10 A. My understanding is that the director of the project,
11 the chief marketing officer of NagraVision, received direct
12 authorization from Andre Kudelski.

13 THE COURT: What's the foundation of that? When
14 you say "my understanding," I have no idea really.

15 THE WITNESS: Dr. John Markey told us specifically
16 during the course of the project that he had authorization
17 from Mr. Kudelski.

18 THE COURT: Your out-of-town marketer?

19 THE WITNESS: No. Dr. John Markey, the chief
20 marketing officer of NagraVision.

21 THE COURT: Who is he?

22 THE WITNESS: The former chief marketing officer
23 of NagraVision.

24 THE COURT: Okay. Thank you.

25 Counsel.

1 BY MR. EBERHART:

2 Q. Did the BBCO project involve any reverse-engineering
3 work?

4 A. Yes.

5 Q. What was the focus of that reverse-engineering work?

6 A. The focus was to analyze the Motorola conditional
7 access, ASIC, the application-specific circuit, to
8 understand how a scrambling key could be extracted from it
9 and shared with the NagraVision conditional access system.

10 Q. Did that Motorola ASIC have a name?

11 A. It went by two different names, depending on the -- I
12 believe they changed the name from the original acronym,
13 called TSODA, and then they eventually called it the ACE
14 module.

15 Q. And did I understand your testimony correctly that the
16 ACE module served both conditional access functions and
17 scrambling functions?

18 A. That's correct.

19 Q. Why did Nagra want to reverse-engineer the ACE module?

20 A. Nagra was unsuccessful at attempting to achieve a
21 simulcrypt agreement with Motorola with any of the U.S.
22 cable operators that were implementing Motorola conditional
23 access.

24 Nagra wanted to sell conditional access services to
25 U.S. cable operators. And so they endeavored on a project

1 to figure out a way to allow their CA system to coexist with
2 the Motorola system.

3 Q. And one of -- withdrawn.

4 Did Nagra -- if the project had succeeded, did Nagra
5 intend to sell set-top boxes that used the information that
6 was developed in the BBCO project?

7 A. As I recall, NagraVision was not in the business of
8 selling set-top boxes. They sold conditional access. But
9 their partners would sell set-top boxes in cooperation with
10 Nagra, and those boxes would then be equipped with Nagra
11 Smart Cards.

12 Q. Okay. And so Nagra Smart Cards would have been
13 included in set-top boxes to be sold under this forced
14 simulcrypt?

15 A. Yes, sir.

16 Q. And those set-top boxes to be sold under this forced
17 simulcrypt would have displaced set-top boxes that would
18 have been purchased -- rather, sold by Motorola; is that
19 correct?

20 A. Yes, that's correct.

21 Q. What was the budget for the BBCO project over its two
22 years?

23 A. As I recall, the total project consumed about
24 \$13 million, give or take.

25 Q. How much of that \$13 million was spent on reverse

1 engineering?

2 A. About a quarter of it.

3 Q. So approximately \$3 million?

4 A. Yes.

5 Q. Okay. Let's talk more specifically about the
6 reverse-engineering methodology. Was acid used to
7 decapsulate the Motorola ACE module?

8 A. Yes.

9 Q. Who undertook that work?

10 A. A firm called Analytical Systems.

11 Q. And was -- what was Analytical Systems' relationship to
12 Nagra USA on the BBCO project?

13 A. A hired vendor.

14 Q. So is it fair to say that Analytical Systems was a
15 consultant to Nagra USA on this project?

16 A. Correct.

17 Q. Did Analytical Systems undertake any other steps to
18 reverse-engineer the Motorola ACE module?

19 A. Their participation included decapsulating the chip,
20 attempting to -- well, extracting the microprocessor
21 firmware from the chip, taking scanning electron microscope
22 photographs of each layer of the chip, and attempting to
23 help create models to characterize each of the standard
24 cells within the chip.

25 Q. Was a FIB ever used, or focused ion beam ever used

1 during the course of this reverse-engineering work?

2 A. Yes.

3 Q. How was a FIB used during the course of this
4 reverse-engineering work?

5 A. An attempt was made to surgically replace, if you will,
6 the ROM code from which the microcontroller executed with an
7 external ROM that executed code designed to spill the
8 contents of the internal random-access memory, or RAM.

9 The FIB was used to grow external contacts to which an
10 external ROM could be attached.

11 Q. Now, you've mentioned two types of memory that were in
12 the Motorola ACE module, the ROM and the RAM; is that
13 correct?

14 A. That's correct.

15 Q. Was the ROM of the Motorola ACE module ever
16 successfully extracted?

17 A. I'm sorry, repeat the question.

18 Q. Was the ROM of the Motorola ACE module ever
19 successfully extracted?

20 A. Yes, sir.

21 Q. How was that ROM content extracted?

22 A. It was extracted using a scanning electron microscope
23 observation of each cell.

24 Q. Did Nagra USA or one of its consultants disassemble
25 that ROM code?

1 A. Yes.

2 Q. How was that ROM code disassembled?

3 A. There was an off-the-shelf software product called IDA,
4 IDA Pro, I believe.

5 Q. And who was the individual who undertook that
6 disassembly of the Motorola ROM?

7 A. It was a Nagra consultant, a gentleman named Stephen
8 Finnegan.

9 THE COURT: I'm sorry, who?

10 THE WITNESS: Stephen Finnegan.

11 THE COURT: How do I spell his last name?

12 THE WITNESS: Finnegan, F-I-N-N-E-G-A-N.

13 THE COURT: Thank you.

14 BY MR. EBERHART:

15 Q. Did Mr. Finnegan work in the BBCO facilities?

16 A. No. He actually worked out of his house.

17 Q. And were the BBCO facilities located in Nagra USA's
18 offices in El Segundo, California?

19 A. No. They were in a rented office suite in San Diego.

20 Q. Did you or anyone else on the team that you know of
21 create documentation of the BBCO project?

22 A. Yes.

23 Q. What documentation was created?

24 A. There were technical specs that were written. There
25 was a spec that was written that analyzed the behavior of

1 the Motorola firmware. There were specs that analyzed
2 the -- or that proposed the technical system solution for
3 how signaling and interfaces would work. There were any
4 number of PowerPoint presentations made to potential
5 customers and internally.

6 Q. Were any of those documents provided to NagraVision in
7 Switzerland?

8 A. Yes.

9 Q. Did you ever meet with Kudelski employees in
10 Switzerland?

11 A. Yes.

12 Q. With whom did you meet?

13 A. I specifically met with Philippe Stransky and
14 Christophe Nicolas.

15 THE COURT: And when you say "documents," what
16 documents? What type of documents?

17 THE WITNESS: There was a Word --

18 THE COURT: Technical solutions?

19 THE WITNESS: Technical specifications and
20 PowerPoint.

21 THE COURT: And PowerPoint?

22 THE WITNESS: Yes, sir.

23 THE COURT: Were they code?

24 THE WITNESS: No, sir, no.

25 THE COURT: Thank you.

1 Counsel.

2 BY MR. EBERHART:

3 Q. Let's step back to the disassembly of the ROM code for
4 a minute.

5 Was an analysis of that disassembled ROM code prepared?

6 A. Yes.

7 Q. How long was that analysis?

8 A. Oh, something on the order of 50 pages.

9 Q. Okay. And at a general level, what did that analysis
10 describe about that ROM code?

11 A. Well, the performance of each of the subroutines in the
12 code, the functional performance, what did it do, not how
13 did it do it, but what it actually accomplished -- the
14 inputs and outputs.

15 Q. Okay. And was Nagra in Switzerland ever informed that
16 the BBCO project under Nagra USA had succeeded in extracting
17 the ROM code from the Motorola ACE module and disassembling
18 that ROM code?

19 A. Sure. That was a milestone event.

20 Q. Okay. You mentioned a meeting with Christophe Nicolas
21 in Switzerland. At that time what was Mr. Nicolas' role?

22 A. As I recall, he was in charge of their Smart Cards.

23 Q. And what was the subject matter of your meeting with
24 Mr. Nicolas?

25 A. At the time, my discussion with Mr. Nicolas was

1 involving the application of Nagra Smart Cards in a
2 Motorola-compatible environment that rapidly changed keys,
3 far more rapidly than a typical Smart Card system could
4 handle.

5 Q. And was that information that you had obtained from the
6 reverse-engineering project?

7 A. Yes.

8 Q. You also mentioned a meeting with Philippe Stransky.
9 Who was Philippe Stransky at that time?

10 A. He was the chief technical officer of NagraVision.

11 Q. And what was the subject matter of your meeting with
12 Mr. Stransky?

13 A. Obtaining -- actually, to provide him with status of
14 the project and to discuss with him how I could obtain
15 technical resources within the NagraVision organization to
16 complete the job.

17 Q. Did you provide him with any documents during that
18 meeting?

19 A. I believe I had e-mailed him PowerPoints in advance of
20 the meeting.

21 Q. Did you provide him any -- in addition to your
22 PowerPoints, did you provide him any technical or other type
23 of documents either during that meeting or in preparation
24 for it?

25 A. I believe so. It was five years ago, but I believe I

1 did give him a system spec that defined the signaling.

2 Q. Okay. And what do you mean by a "system spec"?

3 A. Part of the goal of this project was to establish an
4 end-to-end functional system. So in addition to just the
5 reverse engineering, there was the interfaces and functions
6 required out of the NagraVision CA system. An end-to-end
7 system requirement that defined signaling, messaging,
8 timing, et cetera.

9 Q. Was Motorola aware of the BBCO project when it began?

10 A. No. Not to the best of my knowledge, anyway.

11 Q. Did Motorola ever become aware of the BBCO project?

12 A. Yes.

13 Q. How?

14 A. Dr. John Markey told them about it.

15 Q. What did Dr. Markey tell them?

16 A. According to John, he came back from a trade show
17 announcing to us that he had announced to Motorola that he
18 was whacking DigiCipher.

19 Q. And what was DigiCipher?

20 A. That's the trade name of the Motorola conditional
21 access system.

22 Q. When did Dr. Markey tell you he had conveyed this
23 information to Motorola?

24 A. It was after a trade show in the fall of 2002.

25 THE COURT: And once again I want to hear what

1 information do you believe was conveyed by Dr. Martin.

2 THE WITNESS: Markey.

3 THE COURT: Markey.

4 THE WITNESS: To the best of my knowledge, he
5 explained to Motorola that we were in the process of
6 reverse-engineering their technology for the sake of
7 creating simulcrypt with them.

8 THE COURT: Who did he convey that to?

9 THE WITNESS: A marketing executive of Motorola.
10 I do not know the gentleman's name.

11 BY MR. EBERHART:

12 Q. And what were the words that Dr. Markey used in his
13 conversation with you?

14 A. In his conversation with me, he claimed to have
15 informed Motorola that he was whacking DigiCipher.
16 Whacking, not hacking.

17 Q. Did the BBCO project come to an end at some point?

18 A. Yes. Shortly thereafter.

19 Q. So that was shortly after Dr. Markey informed Motorola
20 that you were whacking DigiCipher?

21 A. Yes.

22 Q. Why did the project come to an end?

23 A. I understand we lost funding approval from Cheseaux.

24 THE COURT: Who is Cheseaux?

25 THE WITNESS: Cheseaux is the NagraVision

1 corporate office.

2 THE COURT: Cheseaux, is it a place?

3 THE WITNESS: Cheseaux, Switzerland.

4 THE COURT: Thank you very much. Appreciate it.

5 BY MR. EBERHART:

6 Q. Do you have any understanding as to whether Andre
7 Kudelski played any role in that decision?

8 A. I can only speculate.

9 Q. And do you have any -- were you involved in the
10 shutdown of the project after the decision was made to end
11 it?

12 A. Yes.

13 Q. What was your involvement?

14 A. My job was to close down the office, dispose of or deal
15 with the remaining information -- the intellectual property,
16 all forms of storage medium equipment, et cetera.

17 Q. What did you do with respect to printed documents that
18 had been generated during the course of the project?

19 A. Any printed document that was considered confidential
20 was put in a box and shipped to Nagra's attorneys.

21 Q. Who were those attorneys?

22 A. Piper Marbury.

23 Q. And what was done with paper documents that were not
24 considered confidential?

25 A. Shredded.

1 Q. What did you do with respect to electronic materials
2 that had been generated during the course of the project?

3 A. Materials that were considered the most sensitive, that
4 is, anything having to do with technology -- I mean
5 engineering documents were all encrypted, placed on optical
6 media and placed into a storage locker.

7 Q. And when you say they were encrypted, how were they
8 encrypted?

9 A. Using PGP and a -- Nagra's PGP key.

10 Q. So all of that material was encrypted to a Nagra PGP
11 key?

12 A. Correct.

13 Q. What was done with the hard drives that were being used
14 during the course of the project?

15 A. All workstations and servers -- I physically removed
16 the hard drives and placed those also in the storage
17 location.

18 Q. Okay. And did the BBCO project involve work on
19 Motorola hardware as part of the reverse engineering?

20 A. Yes.

21 Q. What was done with the Motorola hardware that had been
22 used in the reverse engineering?

23 A. It was all placed in the storage locker.

24 Q. Who instructed you to place all this material in the
25 storage locker?

1 A. It was advice from Nagra counsel.

2 Q. And did you lock the storage unit?

3 A. I did.

4 Q. And that was after you placed all this material in the
5 storage locker?

6 A. Yes, sir.

7 Q. And did you give the key to someone?

8 A. That was given to Gino Travazon (phonetic) in the L.A.
9 office.

10 Q. So you gave that key to Gino Travazon?

11 A. I did.

12 Q. Who was Gino Travazon at the time you provided him with
13 that key?

14 A. He was vice president of customer support, I believe
15 was his title.

16 Q. He was working for NagraStar USA?

17 A. Nagra USA, yes, sir.

18 Q. What was done with things like printers and PC's that
19 were in the office?

20 A. That was all returned to the El Segundo office as well.

21 Q. That was the El Segundo office of Nagra USA?

22 A. That's correct.

23 Q. As we sit here today, do you have any documents that
24 relate to this project?

25 A. No, sir.

1 THE COURT: All right.

2 MR. EBERHART: That's all, Your Honor.

3 THE COURT: All right. Counsel, your objection.

4 MR. HAGAN: Yes, Your Honor.

5 As Mr. Eberhart's direct examination and offer of
6 proof demonstrate, Mr. DeHaan is called for no other purpose
7 but an attempt to get the last word and attempt to attack
8 Mr. Kudelski's business practices which are not at issue in
9 this litigation.

10 Everything Mr. DeHaan just testified to are
11 consistent with what Mr. Kudelski said and does not rebut
12 his testimony in any way. The only possible issues that
13 they could be offering him for is that they used certain
14 equipment in the reverse-engineering of a Motorola product,
15 which is not at issue in this case, and generated reports.

16 Mr. Kudelski testified that he wasn't aware of the
17 exact processes used or whether or not reports were, in
18 fact, generated. Mr. DeHaan cannot testify as to whether or
19 not Mr. Kudelski had that knowledge, nor can he testify as
20 to whether or not Mr. Kudelski received or at any time had
21 notice of those written reports to the extent that they did,
22 in fact, exist.

23 So our objection, Your Honor, would be, number
24 one, it's improper surrebuttal.

25 Number two, it's an "attempt to get the last word"

1 tactic. Simply because we brought Mr. Kudelski from
2 Switzerland to testify does not give them the right to try
3 to attack his business practices, which are not at issue in
4 this case.

5 Number three, this would create a mini-trial, the
6 reverse-engineering project of the Motorola set-top box,
7 which is not at issue, was not even completed. We would be
8 forced to have to call lawyers involved in that project who
9 oversaw that project and other engineers and representatives
10 of Motorola who were informed of the project and of
11 Nagra-France who participated in the project.

12 Finally, Your Honor, there's no relevance under
13 402 because there's no testimony from Mr. DeHaan that makes
14 a material issue in this case more or less likely.

15 And, finally, even assuming there was some
16 marginal relevance, it is substantially outweighed by the
17 prejudicial effect in that it would confuse the jury, it
18 would create a mini-trial within a trial on issues that are
19 simply not relevant to this litigation, and it would unduly
20 prolong this trial, which the jury has already sat through
21 and which they are prepared and both sides are prepared to
22 submit to them to render a verdict.

23 So we would move to strike Mr. DeHaan's testimony
24 under each of those grounds.

25 THE COURT: All right. Counsel.

1 MR. EBERHART: Several points, Your Honor.

2 First, plaintiffs brought out in their direct of
3 Mr. Kudelski the issue of the BBCO project. And certainly
4 bringing forth the full facts of that project is proper
5 surrebuttal in response to that testimony.

6 In particular, Your Honor, Mr. Kudelski testified
7 that the BBCO project did not involve the
8 reverse-engineering of conditional access functionality. He
9 said it only involved reverse engineering of the scrambling
10 functionality.

11 Mr. DeHaan's testimony is directly contrary. That
12 project involved reverse-engineering both the conditional
13 access functionality and the scrambling functionality of the
14 Motorola ace module.

15 In a case where reverse engineering of conditional
16 access is at the heart of the issues, we believe that is an
17 absolutely material piece of evidence and a proper
18 surrebuttal to Mr. Kudelski's testimony.

19 THE COURT: Objection by EchoStar is overruled.

20 You may present this as rebuttal evidence.

21 Kristee, get the jury.

22 (In the presence of the jury.)

23 THE COURT: Thank you, sir.

24 If you would be seated, please.

25 We're back in session. All counsel are still

1 present. The parties are present.

2 And Counsel, if you would like to proceed.

3 DEFENSE SURREBUTTAL

4 THE COURT: Sir, would you raise your right hand,
5 please. Kristee's going to re-swear you.

6 DANIEL DeHAAN, DEFENSE SURREBUTTAL WITNESS, SWORN

7 THE WITNESS: I do.

8 THE COURT: Thank you, sir. Would you state your
9 full name for the jury.

10 THE WITNESS: My name is Dan DeHaan.

11 THE COURT: And spell your last name.

12 THE WITNESS: D-E, capital H-A-A-N.

13 THE COURT: Spell it again, please.

14 THE WITNESS: D-E, capital H-A-A-N.

15 THE COURT: And Counsel, this would be surrebuttal
16 on behalf of NDS.

17 MR. EBERHART: Mr. Eberhart for NDS.

18 DIRECT EXAMINATION

19 BY MR. EBERHART:

20 Q. Good afternoon, Mr. DeHaan.

21 A. Good afternoon.

22 Q. Where are you currently employed?

23 A. With NDS Americas.

24 Q. How long have you worked for NDS Americas?

25 A. Approximately five years.

1 Q. Where were you employed before you began working for
2 NDS Americas?

3 A. Nagra USA.

4 Q. And how long did you work for Nagra USA?

5 A. Approximately two years.

6 Q. What did you do for Nagra USA during the course of your
7 employment?

8 A. I was involved in a project called BBCO.

9 Q. And what was BBCO?

10 A. It was a project intended to create a forced simulcrypt
11 solution to allow compatibility of the NagraVision
12 conditional access system with the Motorola DigiCipher two
13 conditional access system.

14 Q. And when you say "forced simulcrypt," explain to the
15 jury what you mean by that, please.

16 A. Motorola's conditional access system was proprietary in
17 that they did not publish external interfaces to allow other
18 systems to interoperate with it. It was the goal of the
19 project to reverse-engineer the Motorola system to enable
20 the Nagra conditional access system to extract the
21 scrambling key that was used to actually protect the
22 broadcast content, to extract it from the Motorola system
23 and convey it using their own conditional access system to
24 another population of set-top boxes, thus allowing a cable
25 operator to buy competitive set-top boxes, presumably from

1 vendors that would be lower cost than Motorola.

2 Q. And those different set-top boxes -- would those
3 set-top boxes use Nagra technology?

4 A. That was the intent, yes.

5 Q. And would those set-top boxes use NagraStar Smart
6 Cards?

7 A. That was the intent.

8 Q. And so the intent of the project was to create an
9 environment in which Nagra could sell its Smart Cards into
10 set-top boxes for cable companies?

11 A. That's correct.

12 Q. And those set-top boxes would be in competition with
13 set-top boxes made by Motorola?

14 A. That's correct.

15 Q. Now, during the course of the time you worked for --
16 the team that you worked on the BBCO project -- were you
17 always employed by Nagra USA?

18 A. Yes.

19 Q. And where were the offices of the BBCO project?

20 A. In San Diego, California.

21 Q. And during the time you worked for Nagra USA, did Nagra
22 have other offices in California?

23 A. NagraVision had and continues to have an office in
24 Los Angeles, or El Segundo.

25 Q. And am I correct to understand that the BBCO offices

1 were separate from the Nagra offices in El Segundo?

2 A. That's correct.

3 Q. Did you have an understanding as to whether the BBCO
4 project had been approved by the Kudelski Group in
5 Switzerland?

6 A. It was my understanding that it had been approved by
7 Kudelski, yes.

8 Q. Did the BBCO project involve any reverse engineering?

9 A. Yes.

10 Q. What was the focus of the reverse engineering efforts
11 of the BBCO project?

12 A. The bulk of the cryptography within the Motorola system
13 was embodied in a secure chip called an ASIC, and it had
14 names called "TSODA" or "ACE," depending on which version of
15 the chip or the age of the chip.

16 The idea of the project was to take the chip apart,
17 reverse-engineer it, understand how the key was generated
18 within the chip, and thereby figure out a way to extract the
19 key from the chip, create some sort of interface to allow
20 the key to be removed from the chip and shared with the
21 NagraVision system so Nagra's system could run in parallel
22 and cooperatively with the DigiCipher chip.

23 Q. Did the reverse-engineering work that you did for Nagra
24 USA -- withdrawn.

25 Did the reverse-engineering work in the BBCO project

1 involve reverse-engineering of the conditional access
2 functionality of the Motorola ASIC?

3 A. Yes.

4 Q. Did the reverse-engineering work of BBCO also involve
5 reverse-engineering the scrambling functionality of the
6 Motorola ASIC?

7 A. Yes.

8 Q. What was the budget for the BBCO project?

9 A. I believe it was on the order of \$13 million.

10 Q. And what portion of that budget was devoted to the
11 reverse-engineering work?

12 A. Approximately 25 percent.

13 Q. So that's about \$3 million over the course of the
14 project?

15 A. That's correct.

16 Q. How long did the project last?

17 A. Approximately two years.

18 Q. Let's talk about some of the specific steps that were
19 undertaken by Nagra USA or its consultants as part of this
20 project.

21 Did anyone use nitric acid to decapsulate the Motorola
22 ACE module?

23 A. Yes.

24 Q. Who performed that work?

25 A. It was a company -- I believe it was Analytical Systems

1 or Analytical Solutions -- ASE in Albuquerque.

2 Q. Was there a particular individual at ASE that conducted
3 that work?

4 A. There were a number of individuals there. The lead,
5 the guy who ran the company, was a guy named Mike Strizich,
6 S-T-R-I-Z-I-C-H.

7 Q. And during the course of the BBCO project, was
8 Analytical Solutions a consultant to Nagra USA?

9 A. Yes.

10 Q. Was a scanning electron microscope used in the course
11 of the BBCO project?

12 A. Yes.

13 Q. How was it used?

14 A. It was used to take layer-by-layer photographs of the
15 chip, very detailed photographs.

16 Q. Who undertook that work?

17 A. ASE.

18 Q. Were there ever any other consultants to Nagra USA who
19 used a scanning electron microscope to reverse-engineer the
20 Motorola ACE module?

21 A. Initially there was a company called Chipworks up in
22 Canada that performed a similar task.

23 Q. And what was Chipworks trying to accomplish by using
24 the scanning electron microscope?

25 A. They were specifically hired to extract the ROM code,

1 the actual microcontroller code from within the ASIC.

2 Q. Did Chipworks succeed in extracting that ROM code?

3 A. Yes.

4 Q. And was that ROM code provided to Nagra USA?

5 A. Specifically it was provided to Mr. Stephen Finnegan.

6 Q. And did Analytical Solutions also succeed in extracting
7 that ROM code?

8 A. Yes.

9 Q. And was that ROM code provided to Nagra USA or one of
10 its consultants?

11 A. Specifically to its consultant.

12 Q. And the consultant's name was?

13 A. Stephen Finnegan.

14 Q. Who was Stephen Finnegan in the context of the BBCO
15 project?

16 A. He was a consultant to NagraVision.

17 Q. And what was Mr. Finnegan's role?

18 A. His job was to disassemble the ROM code and analyze it
19 to understand its functionality.

20 Q. And how did Mr. Finnegan disassemble the Motorola ROM
21 code?

22 A. There was a commercial product called IDA Pro that was
23 used to put this bunch of ones and zeros in and have it
24 reproduce the microprocessor assembly code -- source code,
25 if you will.

1 Q. And did Mr. Finnegan produce any sort of report of his
2 disassembly work?

3 A. Yes. He produced a functional spec that described the
4 function of each subroutine in the firmware.

5 Q. And how long was that functional spec that Mr. Finnegan
6 produced?

7 A. Something on the order of 50 pages.

8 Q. And describe briefly for the jury what you mean by a
9 "functional spec." What information was in the document
10 that Mr. Finnegan produced?

11 A. The idea was for the rest of the engineering team to
12 understand what the firmware inside that chip did but not to
13 know how it did it. So this guy's job was to analyze each
14 subroutine, what the inputs were and what the outputs were.
15 So he just gave us a functional spec that said this piece of
16 code performs this function, and this piece of code performs
17 this function without telling us exactly what the code was.

18 Q. And did that functional spec describe any of the
19 conditional access functionality of the Motorola ASIC?

20 A. Only in bits and pieces, but that was a component of
21 the conditional access reverse engineering to understand how
22 messages were extracted from the transport stream and
23 processed within the chip.

24 Q. So those are both functions of the conditional access
25 portion of the Motorola ROM code?

1 A. Yes.

2 Q. And during the course of this work, was Mr. Finnegan a
3 consultant to Nagra USA?

4 A. Yes.

5 Q. Was a FIB ever used -- or focused ion beam -- ever used
6 to reverse-engineer the Motorola ASIC?

7 A. Yes.

8 Q. Who used the FIB?

9 A. ASC did.

10 Q. How did ASC or Mr. Strizich use that FIB?

11 A. The goal was a focused iron beam allowed basically to
12 create new wires, if you will, to create new connections
13 onto this opened-up microprocessor. The idea was to replace
14 the firmware that was inside the chip with an external chip
15 that had more firmware on it, fooling the microprocessor
16 into spilling the contents of the RAM memory, the transient
17 memory, inside the chip.

18 Q. You've mentioned that the chip had ROM that was
19 successfully extracted. You've now mentioned that the
20 Motorola chip also had RAM. Were you ever successful in
21 extracting the RAM during the course of the BBCO project?

22 A. Honestly, I don't know. We extracted the RAM contents,
23 but we never finished the project to be able to decrypt the
24 contents of the RAM or determine whether it was actually
25 successfully extracted.

1 Q. Now, was any documentation prepared of the BBCO
2 project?

3 A. Yes.

4 Q. What documentation was prepared?

5 A. Certainly there was a number of PowerPoint
6 presentations for the purposes of sales and status reports,
7 internal and external. There were functional specs and
8 system specs required that would define messaging that was
9 required within the system, timing, interfaces that were
10 required.

11 Q. Were any PowerPoint presentations prepared?

12 A. Yes.

13 Q. Were any budgeting documents prepared?

14 A. Yeah. Internal budget requests and status reports to
15 the management in Switzerland.

16 Q. And were those budget requests and status reports
17 provided to management in Switzerland?

18 A. Yes.

19 Q. Did you ever meet with any of the Kudelski executives
20 in Switzerland during the course of your work on the BBCO
21 project?

22 A. I did.

23 Q. With whom did you meet?

24 A. I met with Philippe Stransky, the chief technical
25 officer.

1 Q. And what was the subject of your meeting with
2 Mr. Stransky?

3 A. To provide Philippe with a technical status report of
4 where the project stood and to discuss allocation of
5 NagraVision engineering resources to help finish the
6 project.

7 Q. Did you inform Mr. Stransky of any of the technical
8 information that you had acquired as a result of the reverse
9 engineering of the Motorola ASIC?

10 A. The briefing that was prepared for him included an
11 overview of the technology used to take the chip apart and
12 an estimation of the progress that had been made to date at
13 that time.

14 Q. And did that description of the progress that had been
15 made to date include description of the functionality of the
16 Motorola ASIC that had been understood so far by the BBCO
17 team?

18 A. No. No. The -- that level of detail was not provided
19 to Cheseaux.

20 Q. And did you ever provide any documents to Mr. Stransky,
21 either at that meeting or in preparation for it?

22 A. Yeah, I did prepare a system spec as well as a
23 PowerPoint.

24 Q. And by a "system spec," what do you mean?

25 A. This is the spec that defined the necessary interfaces

1 in the system that would be required to touch the
2 NagraVision system and thus would require support from the
3 engineering resources in Switzerland.

4 Q. Okay. Did you meet with any other NagraVision or
5 Kudelski Group executives while you were in Switzerland?

6 A. Yeah, there was a gentleman named Christophe Nicolas,
7 who at the time was in charge of their Smart Cards.

8 Q. And what was the subject matter of your meeting with
9 Mr. Nicolas?

10 A. A technical discussion of how to utilize NagraVision
11 Smart Cards in a Motorola environment.

12 Q. And what was the issue regarding whether you could use
13 a Nagra Smart Card in a Motorola environment?

14 A. The Motorola system changes its cryptographic keys
15 quite rapidly, far more so than a normal Smart Card is
16 capable of dealing with. So we had to figure out a way to
17 make a Smart Card work in that environment, either a faster
18 Smart Card or some way to slow down the key changes.

19 Q. And did your discussions with Mr. Nicolas involve
20 conveying to him any information you had obtained as a
21 result of reverse-engineering the Motorola ASIC?

22 A. Yeah. We had to describe in detail how we believed
23 that at the time the best we knew about how keys were
24 generated and at what rate.

25 Q. And when the BBCO project began, was Motorola aware

1 that Nagra USA was undertaking this work?

2 A. Would you please repeat the question.

3 Q. Absolutely.

4 At the outset of the BBCO project, was Motorola aware
5 that Nagra USA was undertaking this work?

6 A. Not as far as I know.

7 Q. And I believe you testified earlier that -- well, let
8 me just ask the question directly.

9 Why did Nagra USA undertake this project rather than
10 attempting to license the technology from Motorola?

11 A. Previous experience in the industry had shown to Nagra
12 and other players in the industry that Motorola was simply
13 not willing to open their interfaces to allow a competitor's
14 system to exist -- to coexist.

15 Q. Did Motorola ever become aware of the BBCO project?

16 A. Yes.

17 Q. How did Motorola become aware?

18 A. It was a NagraVision employee that told 'em.

19 Q. Are you familiar with an individual named John Markey?

20 A. Yes.

21 Q. Who is John Markey?

22 A. At the time, John Markey was the chief marketing
23 officer of Nagra.

24 Q. And was he the chief marketing officer of Nagra
25 throughout the time you worked on the BBCO project?

1 A. Yes.

2 Q. And is Dr. Markey the individual who informed Motorola
3 of the BBCO project?

4 A. Yes.

5 Q. What did Dr. Markey tell you about his interaction with
6 Motorola?

7 MR. HAGAN: Objection. Hearsay.

8 THE COURT: Overruled.

9 THE WITNESS: John Markey came back from a trade
10 show and announced to the project team that he had informed
11 Motorola that we were in the process of whacking their
12 DigiCipher system.

13 BY MR. EBERHART:

14 Q. He said he told Motorola that you were in the process
15 of whacking DigiCipher?

16 A. That's correct.

17 Q. What is DigiCipher?

18 A. DigiCipher is the trade name for Motorola's conditional
19 access system.

20 Q. Now, at the time you worked on the BBCO project, did
21 you think it was proper reverse-engineering, a lawful
22 effort, to reverse-engineer the system?

23 A. Yes.

24 Q. In your view, is reverse engineering of a competitor's
25 system proper?

1 A. Yeah.

2 Q. What are proper reasons that someone might
3 reverse-engineer a competitor's system?

4 THE COURT: Counsel, I think this is beyond the
5 scope.

6 I allowed him for surrebuttal for certain factual
7 issues. This is not what was represented.

8 BY MR. EBERHART:

9 Q. Did the BBCO project come to an end?

10 A. Yes, it did.

11 Q. How did it come to an end?

12 A. Shortly after the fall of 2002 when Dr. Markey told us
13 that he had announced to Motorola the scope of the project,
14 the funding from Cheseaux, from our corporate office in
15 Switzerland, basically dried up. And shortly after that, we
16 were informed that the project was being shut down.

17 Q. Were you told why the project was shut down?

18 A. Not directly.

19 Q. Did you have any role in winding up the operations of
20 the BBCO project?

21 A. Yes, sir. I was the last guy left in the building and
22 basically had to turn out the lights.

23 Q. Okay. Did you do anything with respect to printed
24 documents that had been generated in the course of the BBCO
25 project?

1 A. All confidential documents were returned to Nagra
2 counsel.

3 Q. What was the name of that counsel?

4 A. Piper Marbury.

5 Q. And what was done with nonconfidential documents?

6 A. Shredded.

7 Q. Did you do anything with respect to electronic
8 materials that were generated in the course of the BBCO
9 project?

10 A. I went out and rented a self-storage unit. All
11 electronic hard drives and media were stored in that storage
12 unit.

13 Q. Was anything done with particularly sensitive
14 electronic files?

15 A. All sensitive electronic files were encrypted using a
16 commercial product call PGP, stored on optical media, and
17 left in the storage unit.

18 Q. And to who was PGP keyed, or those sensitive electronic
19 materials encrypted?

20 A. It's a NagraVision ADK. They call it an alternate
21 decryption key. So the officer at Nagra had the ability to
22 decrypt should it be required.

23 Q. So only the security officer of Nagra could decrypt
24 that material after you had decrypted it and burned it to
25 the CDs?

1 A. Correct.

2 Q. What did do you with the hard drives from the servers
3 and workstations that had been used in the BBCO project?

4 A. They were all in the storage unit.

5 Q. So those were pulled --

6 A. Removed from the workstations and servers and stored in
7 the storage unit.

8 Q. And was that storage unit locked up?

9 A. Yes, sir.

10 Q. Did you give the key to someone?

11 A. It was given to Gino Travazon, the guy in charge of the
12 El Segundo NagraVision office.

13 Q. And what was done with printers and the PCs that didn't
14 have their hard drives anymore and other office equipment?

15 A. It was all returned to the El Segundo office as well.

16 Q. Okay. And after you completed this shutdown of the
17 BBCO project, did you retain any documents or evidence of
18 that work?

19 A. No, no.

20 Q. One last thing, sir. You mentioned, obviously,
21 reverse-engineering of a Motorola ASIC. Was Motorola
22 hardware used during the course of that reverse-engineering
23 work?

24 A. Yes.

25 Q. And what sort of Motorola hardware?

1 A. It was necessary to obtain some chips to do -- and the
2 way we did it was by buying Motorola scramblers -- they're
3 called integrated receiver transcoders -- from distribution,
4 and we removed the chips from those devices and performed
5 the analysis on them.

6 Q. And what was done with those Motorola devices and chips
7 at the end of the project?

8 A. They were all stored in the storage locker.

9 Q. And so that was the locker that was locked up, and the
10 key was given to Nagra USA?

11 A. Yes, sir.

12 MR. EBERHART: Nothing further.

13 THE COURT: Mr. Hagan, cross-examination on behalf
14 of NDS.

15 MR. HAGAN: Thank you, Your Honor.

16 THE COURT: I'm sorry. On behalf of Nagra and
17 EchoStar. My apologies.

18 CROSS-EXAMINATION

19 BY MR. HAGAN:

20 Q. Good afternoon, Mr. DeHaan.

21 A. Good afternoon.

22 Q. We met earlier today when I took your deposition,
23 correct?

24 A. That's correct.

25 Q. Now, if I understood that testimony, you are an

1 employee of the defendants now; is that right?

2 A. That's correct.

3 Q. And you were hired by the defendants in roughly July of
4 2003?

5 A. That's correct.

6 Q. About a month after this lawsuit was filed?

7 A. Honestly, I don't know when this was filed.

8 Q. Prior to that -- well, let me back up for a second.

9 You were contacted last night by the defendants'
10 attorneys and asked to come down and testify today; is that
11 right?

12 A. Two days ago, yeah.

13 Q. Okay. Now, during the 2001 -- May of '01 to June of
14 '03, you worked for a company called Nagra France; is that
15 right?

16 MR. EBERHART: Objection. Misstates prior
17 testimony.

18 BY MR. HAGAN:

19 Q. I'm sorry, Nagra USA.

20 A. Yeah.

21 Q. And you performed some work for Nagra USA on a project
22 called BBCO?

23 A. That's correct.

24 Q. Do you know what the letters BBCO stands for?

25 A. Broadband Corporation.

1 Q. Now, the focus of that project -- if I understood your
2 testimony correctly -- or the goal of that project was to
3 develop a mechanism to share a descrambling key, an
4 algorithm used by DigiCipher; is that right?

5 A. That's correct, yes.

6 Q. Now, that project, if I understood your depo testimony
7 correctly, if you put it in a pie chart and you had a
8 hundred percent of it, only about 25 percent of it related
9 to reverse engineering and compatibility analysis; is that
10 right?

11 A. That's approximately right, yes.

12 Q. Another 25 percent related to the development of IRD's,
13 or set-top boxes?

14 A. Set-top boxes, right.

15 Q. And roughly half of that project, or the resources
16 dedicated to that project, related to attorneys and
17 administration -- administrative issues; isn't that right?

18 A. That's right.

19 Q. In fact, attorneys worked hand-in-hand with the BBCO
20 team throughout the entire course of that project, right?

21 A. I wouldn't say hand-in-hand, but they certainly
22 provided us counsel on how to do our job.

23 Q. And if I understood your testimony earlier correctly,
24 they were more heavily involved in the 25 percent of the
25 project that involved compatibility analysis and reverse

1 engineering; is that right?

2 A. That's fair to say, yes.

3 Q. And what is your understanding of why the attorneys
4 were so heavily involved in that component of the BBCO
5 project?

6 A. The reverse-engineering aspect was considered to be
7 something of a gray area legally, and so we did the best we
8 could at the time to keep as clean as possible legally.

9 Q. In fact, you testified this afternoon that the
10 attorneys were there to make sure that everything was done
11 in accordance with applicable laws, including copyright
12 laws; is that right?

13 A. Absolutely.

14 Q. You don't think that there was anything improper about
15 the BBCO project, do you, sir?

16 A. No, not at all.

17 Q. You don't think there was anything unethical or
18 anti-competitive about the BBCO project, do you?

19 A. No, sir.

20 Q. In fact, you think that the entirety of that project
21 was conducted aboveboard and in compliance with all
22 applicable laws, including copyright law?

23 A. Absolutely.

24 Q. You wouldn't have engaged in any of that work had it
25 been underboard or unlawful; is that right?

1 A. That's correct.

2 Q. And you're not here to testify that all
3 reverse-engineering projects are unlawful, correct?

4 A. Of course not, no.

5 Q. In fact, as long as you use the results of reverse
6 engineering for a lawful and proper way, you don't think
7 that there's anything wrong with that?

8 A. That's correct.

9 Q. You don't think that the results of the reverse
10 engineering or compatibility analysis component of the BBCO
11 project was used in any improper or unlawful way, do you?

12 A. No, sir.

13 Q. In fact, that project wasn't even completed, right?

14 A. That's correct.

15 Q. Now, you never had any discussions with the chairman
16 and chief executive officer of the Kudelski Group, Mr. Andre
17 Kudelski; is that right?

18 A. Never have, no, sir.

19 Q. To your knowledge, he didn't attend any of the meetings
20 that you were present at, at the BBCO project?

21 A. That's correct.

22 Q. And that project, that was done in leased office space,
23 is that right, a suite with about nine rooms?

24 A. Correct.

25 Q. You weren't engaging in any activities in a basement,

1 right?

2 A. No, sir.

3 Q. Now, you also testified that you never had any direct
4 communications with Mr. Kudelski, right?

5 A. That's correct.

6 Q. You never transmitted any reports to Mr. Kudelski or
7 any PowerPoint presentations; is that right?

8 A. I personally did not, no.

9 Q. In fact, you don't have any knowledge as to whether or
10 not Mr. Kudelski even saw any of those reports or PowerPoint
11 presentations?

12 A. Not -- certainly not from me.

13 Q. Now, if I understood your earlier testimony, the
14 primary focus of that 25 percent of the project that dealt
15 with reverse engineering and compatibility analysis dealt
16 with the part of the ASIC involving scrambling/descrambling;
17 is that right?

18 A. It was involved with analysis of the entire chip,
19 including descrambling or scrambling as well as the
20 conditional access message processing.

21 Q. Well, didn't you testify this afternoon that the focus
22 of the compatibility analysis dealt with the
23 scrambling/descrambling part and that the goal of the
24 project was to develop a forced simulcrypt solution that
25 would coexist with the DigiCipher II conditional access

1 technology?

2 A. No, sir. At least my understanding of my deposition
3 today and my intent is that the project was to understand
4 the function of the chip, which included conditional access
5 message processing, key handling specifically, which is the
6 main role of a conditional access system, as well as to
7 understand the specific scrambling and descrambling
8 algorithm implemented by the chip.

9 Q. Now, it's your understanding that the project manager
10 for the BBCO project was a gentleman named Dr. John Markey;
11 is that correct?

12 A. That's correct.

13 Q. And you understand he was a former employee of the
14 Kudelski group of companies?

15 A. Yes.

16 Q. Do you have any knowledge as to his departure from the
17 Kudelski group of companies?

18 A. I know that he departed. I don't know details.

19 Q. Do you know that he made spurious allegations in a
20 lawsuit against Mr. Kudelski which were dismissed by a
21 court?

22 A. I'm not aware.

23 MR. EBERHART: Objection. Assumes facts not in
24 evidence.

25 THE COURT: Well, he's not aware. Disregard the

1 question. It assumes facts not in evidence.

2 BY MR. HAGAN:

3 Q. Well, tell us what your opinion is of Dr. Markey, the
4 project manager for the BBCO project, based on your personal
5 dealings with him.

6 A. Dr. Markey was a very, very intelligent man. He was a
7 rather abrasive personality, hard to get along with; but he
8 had, I thought, a very brilliant idea.

9 Q. In fact, didn't you testify under oath a few hours ago
10 that you believed that Dr. Markey was not a trustworthy
11 person and more often than not, he was less than candid with
12 you?

13 A. Yes, sir.

14 Q. And didn't you testify that Dr. Markey had a way to
15 give you an answer that sounded true but turned out not to
16 be so true?

17 A. I did say that. Yes, that's true.

18 Q. Now, Mr. -- I'm sorry. Dr. Markey told you that he
19 notified Motorola that the BBCO project was underway in
20 2002; is that right?

21 A. That's correct.

22 Q. You don't know as you sit here whether or not
23 Mr. Kudelski or anyone else within the Kudelski group of
24 companies had spoken to Motorola about this project before
25 its inception; is that right?

1 A. I'm not aware of that conversation, if it happened.

2 Q. Now, you testified that certain reports were generated
3 in the process of the BBCO project; is that right?

4 A. That's correct.

5 Q. Now, did any of those reports -- well, let me back up
6 for a minute.

7 Did the attorneys supervise the preparation of those
8 reports and the contents that went into 'em?

9 A. I do not believe that -- you know, at one point the
10 attorneys did vet external presentations to make sure we
11 were not presenting something inappropriate. Internal
12 presentations were not vetted.

13 Q. Absolutely. And that was because you wanted to make
14 sure -- in fact, Nagra USA wanted to ensure that they were
15 in full compliance with all applicable laws, including
16 copyright laws?

17 A. That's true.

18 Q. Now, the reports that were generated, did they describe
19 in any way a method to hack the Motorola set-top box?

20 A. No.

21 Q. Did those reports describe in any way a method to
22 create counterfeit or pirated Motorola set-top boxes?

23 A. No.

24 Q. Did those reports describe in any way a method to
25 develop technology to steal copyrighted programming using a

1 Motorola set-top box?

2 A. No.

3 Q. Have you seen the report generated by the defendants'
4 Haifa team in this case?

5 A. No, sir.

6 Q. Would you be surprised if that report described in
7 detail how to hack EchoStar's security system in the
8 United States?

9 A. I'm not aware of the Haifa team. I don't know what
10 their capabilities are or their missions.

11 Q. Based on your experience in the BBCO project, would
12 that be something that you believe should be included in
13 such a report --

14 MR. EBERHART: Objection --

15 BY MR. HAGAN:

16 Q. -- including the dealings that you had with the
17 attorneys overseeing that process?

18 MR. EBERHART: Scope, and improper opinion.

19 THE COURT: I'm not sure what the question is.
20 I'm going to strike the question. I don't understand the
21 question.

22 BY MR. HAGAN:

23 Q. Mr. DeHaan, based on your experience in the BBCO
24 project, including your experience in preparing and
25 reviewing the written reports from that project, would you

1 expect to see a section in the defendants' report that
2 describes in detail how to hack EchoStar's security system
3 in the United States?

4 MR. EBERHART: Objection to scope, and improper
5 opinion.

6 THE COURT: I'm going to sustain it. I don't
7 think he can make that comparison.

8 You haven't read the Headend Report, have you?

9 THE WITNESS: No, sir.

10 THE COURT: The Haifa team report?

11 THE WITNESS: I'm not familiar with it.

12 BY MR. HAGAN:

13 Q. In preparing you for your testimony here today, did the
14 defendants' counsel show you a copy of that report?

15 A. I'm not aware of the report. No.

16 Q. Did they tell you at any time about their efforts to
17 develop a method to hack EchoStar's security system?

18 A. I'm not familiar with it. No, sir.

19 Q. Did they tell you at any time that they shared that
20 information with a gentleman named Chris Tarnovsky, who was
21 previously involved in piracy?

22 MR. EBERHART: Your Honor, I'm going to object to
23 the extent this is calling for attorney-client
24 communications. This is entirely improper.

25 THE COURT: It's not attorney-client. It's just

1 that each of you are starting to argue the case through a
2 witness.

3 I think the only import is what the BBCO function
4 was. And I think that we've gotten down to that for both
5 sides.

6 I'll let you continue, Counsel, but I don't want
7 to use the comparison.

8 MR. HAGAN: Certainly, Your Honor.

9 THE COURT: He hasn't looked at the Headend
10 Report. It's unduly consumptive of time. He can't make
11 that -- unless you want to take time. If both of you want
12 to qualify him as an expert witness, we'll send him out in
13 the hallway and bring him back in a year. I'm just kidding.

14 MR. HAGAN: I think the jury is ready to finish up
15 with this witness. I just have a couple more questions.

16 BY MR. HAGAN:

17 Q. Now, Mr. DeHaan, you believe that every step of the
18 way, every process engaged in by you and the other team of
19 engineers and the counsel overseeing that project in the
20 BBCO process, was all legitimate, correct?

21 A. That's correct.

22 Q. Did you ever disclose any of the confidential
23 information related to the BBCO project to individuals
24 engaged in satellite piracy or hacking?

25 A. Not to the best of my knowledge, no.

1 Q. Would you have felt comfortable disclosing that
2 information?

3 A. No, sir.

4 Q. In fact, I believe you testified that you took great
5 pains to keep that information confidential; is that right?

6 A. That's correct.

7 Q. Now, would you have posted any of that information on
8 the Internet?

9 MR. EBERHART: Objection. Scope and 403.

10 THE COURT: Overruled.

11 You can answer that question.

12 THE WITNESS: No, I would not have.

13 BY MR. HAGAN:

14 Q. Why not?

15 A. It would have been inappropriate for the good of my
16 career.

17 MR. HAGAN: Thank you, Mr. DeHaan.

18 No further questions, Your Honor.

19 THE COURT: All right. Counsel, redirect.

20 REDIRECT EXAMINATION

21 BY MR. EBERHART:

22 Q. Mr. DeHaan, to whom did John Markey report during the
23 time of the BBCO project?

24 A. Directly to Andre Kudelski.

25 Q. And did there come a time when Mr. Markey stopped being

1 the direct report to Andre Kudelski?

2 A. Clearly that occurred, but not necessarily on my watch.

3 Q. Okay. Are you familiar with an individual named Steve
4 White?

5 A. Yes, I am.

6 Q. Who is Steve White?

7 A. Steve was one of the consultants working on the BBCO
8 project.

9 Q. And did Steve White work on the BBCO project before you
10 joined that project?

11 A. Yes.

12 Q. And did Mr. White interact directly with Andre
13 Kudelski?

14 A. Yes.

15 Q. And did Mr. White describe the substance of the project
16 to Mr. Kudelski?

17 A. Yes.

18 Q. And what was the purpose of Mr. White's description of
19 the project to Mr. Kudelski?

20 MR. HAGAN: Foundation.

21 THE COURT: Well, yeah.

22 Were you there when he described this to
23 Mr. Kudelski?

24 THE WITNESS: I was not personally there, no, sir.

25 THE COURT: So he's relating it to you?

1 THE WITNESS: Yes, sir.

2 THE COURT: Sustained.

3 BY MR. EBERHART:

4 Q. Was Mr. White a Nagra consultant at the time he made
5 these statements to you?

6 A. Yes.

7 Q. And was Mr. White repeating statements that
8 Mr. Kudelski made to him at the time Mr. -- at a time when
9 Mr. White was a Nagra consultant?

10 A. Yes.

11 MR. EBERHART: Your Honor, I believe this is an
12 exception to hearsay. These are statements of a party
13 opponent.

14 THE COURT: You may proceed.

15 MR. EBERHART: Okay.

16 BY MR. EBERHART:

17 Q. Why did Mr. White convey to Andre Kudelski the
18 substance of the BBCO project?

19 A. Originally John Markey, as the project leader, was the
20 direct interface with the corporate office in Switzerland,
21 and he was the guy that would arrange to have our purchase
22 orders and our funding approved by Switzerland.

23 At later stages of the project, John Markey was less
24 and less present and had apparently lost his influence over
25 Andre to allow funding to continue.

1 So it was -- Steve took it upon himself to appeal to
2 Nagra management, each P.O., you know, one purchase order at
3 a time, to try to get funding to continue the project.

4 Q. And Mr. White's attempts to get funding, were those
5 directly with Andre Kudelski?

6 A. It was with Andre Kudelski and with Pierre Roy, their
7 operations executive. I don't know his exact title.

8 MR. EBERHART: Thank you.

9 THE COURT: Recross?

10 MR. HAGAN: Nothing further, Your Honor.

11 THE COURT: May the witness be excused, Counsel?

12 MR. EBERHART: Yes, Your Honor.

13 THE COURT: All right. Thank you very much, sir.

14 You may step down.

15 (Witness excused.)

16 THE COURT: All right. Counsel, any surrebuttal?

17 MR. SNYDER: Your Honor, we would like to move the
18 admission of four exhibits that have been previously
19 identified.

20 THE COURT: Were those identified just with the
21 last witness?

22 MR. SNYDER: No, Your Honor, they were previously
23 identified.

24 THE COURT: We can do that outside the presence of
25 the jury.

1 Now, I hate to bother you, ladies and gentlemen,
2 but I'm going to ask you to go back to the jury room for
3 just a moment. I want to see exactly where we are in this
4 case without you being present for just a moment.

5 I'll come and get you in just a few moments, okay?
6 Please don't discuss this matter amongst yourselves nor form
7 or express any opinion concerning this case.

8 (Jury recesses.)

9 (Outside the presence of the jury.)

10 THE COURT: Okay. Now, what are those items of
11 evidence?

12 MR. SNYDER: Numbers 136-A --

13 THE COURT: Why don't you show that to the
14 opposition.

15 MS. SHEPARD: Christine and I have already gone
16 over them.

17 THE COURT: Is that acceptable?

18 MS. WILLETTS: Yes, Your Honor.

19 THE COURT: What is your next item?

20 MR. SNYDER: 141.

21 THE COURT: 141, is that acceptable?

22 MS. WILLETTS: Yes, Your Honor.

23 THE COURT: The next item?

24 MR. SNYDER: 29.

25 THE COURT: I thought 29 was already received.

1 MR. SNYDER: I thought so, too.

2 MS. SHEPARD: It's a little unclear because we
3 don't have the transcript back because it's a video
4 deposition.

5 THE COURT: Is that acceptable?

6 MS. WILLETTS: Yes, Your Honor.

7 MR. SNYDER: And finally, 826, Your Honor.

8 THE COURT: 826, is that acceptable?

9 MS. WILLETTS: Yes, Your Honor.

10 THE COURT: I'll inform the jury when we come back
11 in that we've received those items outside their presence.

12 Now, are you resting on surrebuttal?

13 MR. EBERHART: Yes.

14 THE COURT: Do you want sur, sur, surrebuttal? If
15 you do, we can have a mini trial. I can outlast you.

16 MR. HAGAN: I don't think we need one. May I have
17 a moment to confer?

18 THE COURT: Why don't we go find all the attorneys
19 over there with the Piper firm and get the Martin people in
20 here. It's going to be terrific.

21 And then you can think of something else on behalf
22 of NDS.

23 (Pause in the proceedings at 4:10 p.m.)

24 THE COURT: All right. We're back on the record.
25 The Court's provided time for each of the parties to make

1 certain that they've had a full and complete case or to
2 suggest to the Court that they'd like to try additional
3 witnesses, to identify those witnesses, and then we can pick
4 a date in the future for the jury.

5 Counsel, on behalf of NDS, have you completed your
6 surrebuttal?

7 MR. SNYDER: We have, Your Honor.

8 THE COURT: Let me turn to EchoStar.

9 MR. HAGAN: Your Honor, we do not need to call any
10 further witnesses.

11 THE COURT: I want to make sure both sides are
12 absolutely satisfied that you've called the witnesses that
13 have been available and there's no complaints about you not
14 having a full trial.

15 So once again, you've had time to consult with
16 your principals. You've been here the whole time. Make
17 whatever phone calls you want to, to anybody, to get their
18 permission. I know you've got authority, but just as a
19 courtesy.

20 You can do the same thing on behalf of NDS. You
21 can call anybody you'd like to.

22 But if counsel are satisfied, then I'll inform the
23 jury that the evidentiary portion of the case is concluded.

24 Once again, is that satisfactory to EchoStar and
25 NagraStar?

1 MR. HAGAN: It is, Your Honor.

2 THE COURT: And to NDS?

3 MR. SNYDER: Yes, Your Honor.

4 THE COURT: All right. Well, then, I'll get the
5 jury, and we'll formally excuse them until probably
6 8:30 tomorrow.

7 Let me talk to each of you.

8 I've decided that I'm going to have you argue
9 first. After listening to today's events, I'm going to make
10 certain that the arguments begin and conclude tomorrow.

11 And I'm a little afraid that I might get pushed
12 with my jury instructions, which I regard as very important.
13 And if I am, then I'll read those next Tuesday when they
14 return, because Mr. Bender's informed us that he's leaving
15 for his daughter's graduation, which we all knew about, and
16 that we'll be dark on Thursday, Friday and Monday.

17 If I'm not pushed, then I'll read them after the
18 conclusion of your argument.

19 But I think it's wise, even though you may
20 disagree, that you have the opportunity to argue while the
21 jury's relatively fresh, before I read an hour and a half of
22 instructions.

23 It also lets me watch you, quite frankly, and that
24 way I can see if anybody strays. If anybody strays from the
25 instructions we are going to decide once again this evening,

1 I can correct that very quickly.

2 So, Counsel --

3 If there's nothing further, Kristee, would you be
4 kind enough to summon the jury.

5 And if you want additional time in light of that,
6 Counsel, you can have three hours per side. Think about
7 that. It's a very generous offer. You don't have any time
8 limits. I'll up the time limits for you, if you would like.

9 (Discussion off the record.)

10 (In the presence of the jury.)

11 THE COURT: All right. We're back in session.

12 All counsel are present.

13 Counsel, thank you for your courtesy.

14 The jury's now present.

15 Outside your presence there's been four more
16 exhibits received by the Court. I just need to make a
17 record in your presence.

18 136-A has been received; 141 has been received; 29
19 has been received, which I believe has previously received;
20 and 826 was just received.

21 (Exhibits 136-A, 141, 29 and 826 received in evidence.)

22 And, Counsel, once again let me turn to NDS,
23 et al.

24 Counsel, any further surrebuttal?

25 MR. SNYDER: No. The defense rests, Your Honor.

1 THE COURT: Let me turn back to EchoStar and
2 NagraStar. Any further evidence you wish to present?

3 MR. HAGAN: Plaintiffs rest, Your Honor.

4 THE COURT: Okay. The evidentiary portion of this
5 case is concluded.

6 We're about one day ahead of schedule.

7 I actually thought that you would be going on your
8 trip on Thursday and I'd probably hear the argument on the
9 Tuesday that you were returning. But I think, if we work
10 hard, we can have the arguments occur tomorrow.

11 We have a little bit more to do between
12 6:00 o'clock and 4:00 o'clock this morning, but we'll get it
13 done.

14 And so when you come in tomorrow, I'd like you to
15 come in at 8:30. At that time you're going to hear the
16 concluding arguments by both parties.

17 So we're really a day ahead of schedule. Counsel
18 have done an extraordinary job. My compliments to both
19 sides. Frankly, their enthusiasm on Saturday and Sunday has
20 kept me going. I really appreciate that.

21 (Laughter.)

22 THE COURT: I'll probably be able to instruct you
23 also at the end of the day, but I'll take a gauge about how
24 you're doing at that time.

25 Right now we have an agreement between counsel

1 that they can argue for 18 hours apiece. I'm just joking.
2 It's a time to argue.

3 I still want to make certain that it's agreeable.
4 If it's not, tell me now. Is 2 1/2 hours still acceptable?

5 MR. SNYDER: Yes, Your Honor.

6 MR. WELCH: Yes, Your Honor.

7 THE COURT: They've even agreed to no more than
8 2 1/2 hours. That's fair with the abundance of evidence.
9 Their job is now to put that together in a form that
10 hopefully can take you to the position of what the
11 respective sides believe their positions warrant.

12 But remember -- for goodness sake -- I'll tell you
13 a couple of stories. I used to practice in the days where
14 the judge wouldn't even allow a court reporter to read back
15 testimony. No exhibits were shown during a trial. You sat
16 there, probably for three weeks instead of four, but you
17 might not have had any idea of what was happening.

18 So I just come from that 1970's experience. I
19 pledged if I was ever on the bench, I didn't want my jurors
20 to go through the same thing, and I didn't want my litigants
21 to go through it.

22 So on one hand, I'm very pleased that we took the
23 time, but I do tell you we could have tried the case three
24 days faster if we wouldn't have shown you any exhibits, if
25 nothing would have gone up.

1 I don't know how you would have understood the
2 case. And I think by taking that time then, whether you
3 take minutes, hours, days, or weeks -- and you don't know
4 where your deliberations take you; you haven't started that
5 process -- you're certainly in a much better position having
6 seen the exhibits as you go. You may not recall the exact
7 number, but you've got us here full time 24-7 for whatever
8 you need.

9 Let me tell you a couple other things just in
10 advance. I don't have normal working hours here. It's a
11 terrible price to have an open court for litigation, but I
12 truly enjoy litigation and the litigants. And when you
13 finally go back for your deliberations, you'll probably
14 start up a short time tomorrow, and then you'll be on your
15 way until the following Tuesday.

16 You'll set the hours. If you want to continue to
17 come in at 8:00 o'clock, that's fine. If you want to come
18 in at 7:30, that's fine. If you want to come in at
19 8:30, that's fine. You'll set your hours during your
20 deliberation process.

21 I just ask that you give us a relatively complete
22 day, as you have; that, you know, if you do recess, it's
23 sometime between 4:00 and 5:00 o'clock. Certainly on
24 Fridays we've fallen into a habit of 4:00 o'clock.

25 But if you also want to go late, I think it's

1 pretty arrogant on my part to decide that just because I
2 think the working day might be 8:00 o'clock at night I'm
3 calling in and telling you that you have to go home. If
4 you're right in the middle of something at 5:00 o'clock,
5 finish that debate. Or if you just need a fresh start the
6 next day, if you've reached that point, it's just better to
7 get away from it. Go home at 4:00 o'clock. So set your own
8 hours, and it's whatever you need.

9 Kristee will talk to you about that, and just tell
10 her you're leaving for the day each day after deliberations
11 and what time you want to start. Okay?

12 Also set your own lunch hours. I've been setting
13 an hour, but you might want an hour and 15 minutes, and/or a
14 little bit longer.

15 Kristee, once we swear them, can we take them to
16 lunch?

17 THE CLERK: Yes.

18 THE COURT: As soon as I swear you, we can pay for
19 your lunch, but you're limited to \$2 a day.

20 (Laughter.)

21 THE COURT: You're limited to about 12 or 14
22 dollars a day, so you can't go very far. But you can go to
23 lunch as a group or split up. If you split up, we can't pay
24 for it. If you go as a group, we can take you across the
25 street. And I would say an hour and 15 minutes to get in

1 and out of the restaurant. We'll explain that.

2 You'll see that all counsel will be right in
3 court. So if you bump into them, it's because they're
4 ordered to remain on the premises. I'm not hunting for
5 counsel outside the Court in case you have a question, and
6 they know that.

7 So has anybody talked to anybody about this case
8 so I can start all over again? Don't do it. It's my
9 general way of kidding you, but don't reach out. These are
10 dangerous times.

11 Now, let me talk to counsel about one more thing.
12 I'll need the court reporter.

13 (Sidebar Conference reported as follows:)

14 THE COURT: I'm at sidebar.

15 We have a date. We got it from Court
16 Administration. Dateline will be on tonight or tomorrow
17 night. So, I mean, you couldn't ask for a worse time. And
18 the question is, if you want me to warn them. And I promise
19 you this: If they're not warned and they hear about this, I
20 am not granting a new trial 'cause I'm giving you that
21 option of telling them. I'll leave it up to you.

22 MR. KLEIN: Can we talk?

23 THE COURT: Yeah, go talk.

24 Okay. All right, then. We're back in session.

25 All counsel are present.

1 Thank you, counsel, for your courtesy.

2 (In open court.)

3 THE COURT: We'll see you at 8:30 tomorrow.

4 And I'm going to admonish you to be careful about
5 watching the press. The case is ended. We expect that
6 there's going to be some press notoriety, both in the
7 written press and in the media. And just asking you to be
8 cautious. If you recognize anything about this case, please
9 do your best to flip that channel, turn the radio, or set
10 aside the paper. That's about the best we can do.

11 Okay. We'll see you tomorrow at 8:30. You're
12 admonished not to discuss this matter amongst yourselves nor
13 form or express any opinion concerning the case.

14 Good night.

15 (Jury adjourns.)

16 (Outside the presence of the jury.)

17 THE COURT: All right. Counsel, back in session.

18 All of the counsel are still present.

19 This evening I'm going to demand that lead counsel
20 be present so that any rulings that are made on the Rule 50
21 and the jury instructions, that counsel are aware of the
22 Court's rulings.

23 I don't think it has to take that long, but I want
24 to make certain as a consistent courtesy on my part that
25 each of you are satisfied with your Rule 50 arguments, and

1 if you would like to renew any portion of that argument,
2 make any further record, you're invited to do so.

3 Let me just start with, the Rule 50 came from both
4 of you. I mean, it was kind of a coequal effort, so let me
5 just start with NDS.

6 Any further comments on Rule 50s that you would
7 like to make?

8 MR. SNYDER: Your Honor, very briefly.

9 THE COURT: Please.

10 MR. SNYDER: The testimony of Mr. Andre Kudelski,
11 I believe, confirmed the need for our or the wisdom of our
12 Rule 50 motion on two issues.

13 First, relating to the mitigation of damages, he
14 testified specifically that they did not follow the
15 warranty, even though it was available, and that they did
16 not apply the term of that warranty, which was the direct
17 cost of manufacturing, excluding overhead, which was
18 something that was available to EchoStar and was not used.

19 THE COURT: Okay.

20 MR. SNYDER: Second, related to our motion on
21 disgorgement, I believe that Mr. Kudelski's testimony is not
22 sufficient to contradict the testimony of the only
23 testifying witness from DirecTV; that EchoStar and
24 NagraStar, the plaintiffs in this case, would not and could
25 not have gotten the DirecTV contract, regardless of the

1 state of EchoStar and NagraStar's security and their
2 conditional access system.

3 THE COURT: Okay.

4 Mr. Stone.

5 MR. STONE: No, he stole my thunder. That was it
6 on the issue.

7 THE COURT: Mr. Eberhart and Mr. Klein?

8 MR. KLEIN: Nothing, Your Honor.

9 MR. EBERHART: Nothing.

10 THE COURT: Mr. Welsh and Mr. Hagan?

11 MR. WELCH: Mr. Hagan will argue it.

12 THE COURT: Okay.

13 MR. HAGAN: Your Honor, for purposes of preserving
14 our Rule 50 motions, we urge those formally at this time.

15 THE COURT: Okay.

16 MR. HAGAN: And would submit on those grounds.

17 To address the two issues raised by Mr. Snyder
18 with respect to mitigation, it is still our position that
19 the defendant should not benefit from their wrongdoing.
20 They can certainly argue that the plaintiffs failed to
21 properly mitigate their damages, but it's -- I believe that
22 the Court has adequately addressed that in the instructions
23 as they stand.

24 With respect to disgorgement, two points,
25 Your Honor:

1 First, the testimony of Mr. Kudelski as well as
2 the testimony of Mr. Kahn demonstrate that DirecTV was in
3 negotiations with Nagra to switch conditional access
4 providers, and that was in the '98/'99 time frame.

5 They decided not to go forward with inking a
6 settlement or inking a new deal for two reasons: One, they
7 learned that Nagra's conditional access system had been
8 compromised, and this was shortly after the November 1998
9 Headend Report; two, they were told of that compromise by
10 representatives of the defendants. I think that certainly
11 establishes a motive for the defendants to engage in the
12 conduct in which they engaged as well as to provide that
13 information to representatives of DirecTV to sway them away
14 from entering into a new deal with Nagra.

15 Second point: It is irrelevant under the law
16 under the disgorgement theory that we have alleged through
17 the California Penal Code whether or not Nagra actually
18 signed a deal with Kudelski or whether or not Kudelski or
19 DirecTV was actually going to enter into that deal. The
20 disgorgement component of the California Penal Code is
21 punitive in nature. And the disgorgement theory allows for
22 revenues, not profits.

23 So at this time we would reurge our Rule 50
24 motion, striking the exhibit offered by the defendants that
25 set forth costs associated with earning those revenues and

1 any testimony by the defendants' corporate representative,
2 Dov Rubin, related to that exhibit.

3 THE COURT: Okay. Anything further by any
4 counsel?

5 MR. SNYDER: Very, very briefly, Your Honor.
6 Two-points:

7 First, Mr. Kudelski testified that the reason that
8 Nagra did not get the DirecTV contract was because
9 News Corporation purchased an interest in DirecTV, which is,
10 of course, unrelated to any of these events and certainly to
11 the security of their system. And that would prevent any
12 notion of causation.

13 And then finally and formally, we reurge -- if I
14 haven't mentioned them, we reurge all of our motions
15 previously made on Friday.

16 THE COURT: Okay. I want to make sure everybody
17 is exhausted and you've had your say.

18 Mr. Hagan.

19 MR. HAGAN: Your Honor, we submit with the
20 arguments that we have already made as well as the briefing
21 that we have submitted to the Court.

22 THE COURT: Okay.

23 We've been working very hard in your absence
24 trying to anticipate what these last few days would bring.
25 And even within the last couple hours there's been some

1 updating going on over lunch. Some of these issues between
2 the two of you on Rule 50 were frozen, quite frankly, a long
3 time ago.

4 The disgorgement, the damages, and the
5 counterclaim, whether estoppel would still lie -- there were
6 some significant issues left that I promised each of you I'd
7 wait to decide until Kudelski, Dr. Peled, whomever would
8 testify in rebuttal or surrebuttal.

9 So if you'll give us a few moments, I think that
10 we will send out to you about 15 to 20 pages of rulings. I
11 think you'll need an hour to absorb those rulings, and then
12 I propose to meet you at 6:00 o'clock to go over the
13 remainder of the instructions with you in light of the
14 Court's rulings. I think I can do that within an hour.

15 But once you see my rulings, I'm giving you every
16 opportunity now to make any further statements because those
17 are not subject to reargument.

18 So if there's anything else that you could
19 possibly say, this is the time because it won't be a
20 negotiating option at that time.

21 And I just want to make certain that you're
22 satisfied, Mr. Snyder, and Mr. Hagan, you're satisfied.

23 MR. SNYDER: Submitted, Your Honor.

24 THE COURT: Okay.

25 MR. HAGAN: Submitted with one point, Your Honor.

1 We think that the Court has taken great pains to
2 go with the conservative approach. In that vein, we think
3 that a question of disgorgement should go to the jury. If
4 the Court decides subsequently that the jury's verdict is
5 inconsistent with arguments made by the defendants or what
6 the Court believes the Ninth Circuit would do, then the
7 Court can certainly take that away at that time. If the
8 Ninth Circuit decides that disgorgement was an improper
9 remedy to be submitted to the jury, then they can take it
10 away at that time.

11 Alternatively, if we do not allow that issue to go
12 to the jury and the Ninth Circuit decides that it was a
13 proper issue for their consideration, then we're going to be
14 right back down here again on one particular issue.

15 THE COURT: Well, I think you're both in a few
16 moments going to be very pleased and very displeased.

17 I want to make sure you have concluded.

18 MR. HAGAN: I have, Your Honor.

19 THE COURT: I'm deeply concerned about the
20 disgorgement theory. And you have a way, literally, of
21 getting a billion dollars or more, frankly, without the
22 disgorgement theory. It's only a part and parcel of it.
23 You have numerous ways of calculating damages in this matter
24 that could be astronomical. And I consider that a very
25 small part of your case and quite frankly not the linchpin

1 of your damages argument.

2 I've set forth a number of reasons you're going to
3 see why I'm going to grant the Rule 50 on the disgorgement.

4 Concerning unclean hands, some of the displeasure
5 NDS is going to feel is as follows, and I'm going to grant
6 your Rule 50 concerning unclean hands. I don't see any
7 nexus between the conduct here, and we've set that forth in
8 probably four or five pages concerning the disgorgement
9 theory and a number of pages concerning the unclean hands
10 issues.

11 Also I don't see any damages. Future or
12 speculative damages, as you ably pointed out with the last
13 witness, have been rather consistent. There are no damages
14 that are going to be awarded or the jury's going to consider
15 on the counterclaim by NDS.

16 And you're going to see about 10 or 11 rulings
17 which will lead to, I think, our 15th or 18th rework of
18 these instructions outside your presence. And I'll probably
19 give you a copy of these instructions with our notation
20 first on the side. But the rulings will briefly be as
21 follows, and then you can start the process of bringing
22 these out for counsel.

23 The motion for judgment as a matter of law as to
24 disgorgement is granted.

25 The judgment for -- motion for judgment as a

1 matter of law as to disgorgement is -- I'm sorry --
2 defendants' motion for judgment as a matter of law as to
3 disgorgement is granted.

4 Plaintiffs' motion for a judgment as a matter of
5 law to disgorgement is deemed moot.

6 Defendants' motion for judgment as a matter of law
7 that damages related to the card swap are barred by the
8 statute of limitations based on the 1998 postings is denied.

9 Defendants' motion for judgment as a matter of law
10 based on EchoStar and NagraStar's failure to enforce the
11 warranty provisions is denied.

12 Plaintiffs' motion for judgment as a matter of law
13 is granted on defendants' unclean hands defense.

14 Plaintiffs' motion to strike the unclean hands
15 defense is deemed moot.

16 Plaintiffs' affirmative defense of unclean hands
17 is stricken.

18 Plaintiffs' motion for judgment as a matter of law
19 on defendant's CUTSA counterclaim damages is hereby granted.

20 Plaintiffs' defense of failure to mitigate is
21 stricken.

22 Now, I'm going to give one of you the first copy
23 of these. But, quite frankly, as far as your damages claims
24 are concerned, you have ways of getting to damages that are
25 astronomical. You just need to sit and think about that for

1 a moment. You've got trebling potentially. I'm not sending
2 this up to the Circuit, and you'll see four pages of why.
3 There are four separate reasons that I feel very strongly
4 about, so you're not going up to the jury on disgorgement.
5 And although I've been cautious, I'm fairly confident that
6 this does not belong in front of the jury.

7 As far as unclean hands are concerned, I don't
8 find a nexus here. I don't find a nexus between the conduct
9 and pirating, et cetera, and I don't see any damages
10 testified to, and speculative damages in the future are not
11 damages. The law is very clear on that.

12 But instead of ad-libbing from the stand, you've
13 got 15 pages in small print. If I put out a normal order,
14 it would be about 35 pages. It's going to take you awhile
15 to absorb that, frankly. I'm not going to waste time with
16 the instructions right now. We're done with the
17 instructions. When I gave these to you, these will be the
18 instructions. We've hashed these more often than you can
19 imagine. So we're done.

20 But I'm going to go over them with you. Over the
21 weekend, I missed a couple -- for instance, on Page 29, the
22 contributory liability, the subparagraph 2, it used to read
23 that "defendants intentionally induced or materially
24 contributed the circumvention." Well, I think it deserves
25 the word "to" in there. It's a small thing, and I'm

1 supposed to catch that. And by this time, I think I've got
2 these instructions memorized.

3 The same thing, of course, on Page 38 concerning
4 contributory liability, need to add the word "to."

5 You know, if the jury accepts your argument,
6 you've potentially got damages as high as 1,000 to \$10,000.
7 Take \$10,000 just for one year times a hundred thousand
8 minimally. That's a billion dollars.

9 And, I mean, this could be zero liability or
10 astronomical liability, let alone compounding that over more
11 than one year. So let alone other sections that are
12 cumulative. And, of course, this could add up to be zero,
13 quite frankly.

14 I'm going to ask you on Claim No. 4 a little bit
15 about the tolling provision. That's something I still want
16 to talk to you about tonight.

17 The last two portions, the violation of
18 California -- or the last two "dots" have been stricken by
19 the Court. You'll see that on our instructions in a few
20 moments. The first is still in play. I'm a little bit
21 concerned about the June 6, 1999, because right now it reads
22 "occurred on or after June 6, 2000." But there's a strong
23 argument that you could reach back to June 6th of 1999 in
24 terms of damages. That's going to be so confusing to the
25 jury, but I'll talk to you about that in just a moment.

1 Also, on Claim 5, the same provision, the first
2 bullet points left, the last two are stricken.

3 You'll see that on actual damages and defendants'
4 revenues attributable to violations, we're going to strike
5 "and defendants' revenues," and you'll see in the body "plus
6 any defendants' revenues attributable to violations of
7 California Penal Code Section 593(e) (b)" have been stricken,
8 and the last bracketed paragraph that is still bracketed is
9 stricken.

10 You'll see that -- let me see if I can do this by
11 memory. In certain portion, it states "defendants," and
12 it's this Court's concern about criminal RICO and civil
13 RICO. These instructions are confusing because sometime it
14 refers to an individual, and it refers -- the jury may think
15 that a defendant is an individual.

16 Well, Tarnovsky's not a charged defendant here.
17 It's really NDS Americas and NDS Group, PLC. And so you'll
18 see that we've modified that in certain parts to make sure
19 who the defendants are on occasion, and other times you've
20 got a combination here.

21 And so you're going to have to look closely when
22 we finally get back on the record at, for instance, Claim 6,
23 the participation portion and the pattern of racketeering
24 activity on Page 2. We try to make that as sensible as we
25 can as well as the predicate acts by spelling out once again

1 so there's not confusion and in more detail what defendants
2 are. Because, in a sense, the defendants may be NDS
3 Americas and NDS Group, PLC. And that's the trouble with
4 applying criminal RICO to civil RICO.

5 But I've editorialized enough, and the courts hold
6 that there's such a thing, so there's apparently such a
7 thing.

8 I don't understand, and I'm striking with the
9 Court's ruling the plaintiffs' affirmative defense, defense
10 of failure to mitigate. It's no longer applicable, in my
11 opinion. There's no damages going to the jury.

12 I'm striking the -- well, I've still got a
13 question mark about estoppel, but it just doesn't seem
14 relevant now that there are no damages.

15 MR. SNYDER: I assume you mean on the
16 counterclaim, Your Honor?

17 THE COURT: That's on the counterclaim. I hope I
18 stated that.

19 Unclean hands affirmative defense, it doesn't make
20 sense to have those in the instructions.

21 Now, I'm going to do this from memory. The
22 special verdict forms have been substantially modified also.

23 On the fifth question, I understand that that
24 question is designed to go to the jury on the issue of
25 prejudgment interest. But when you read through that

1 special verdict and you get to question No. 5, which is the
2 bottom of the page, right here, there's no blank. So if
3 you're a jury and you're going through, you find oppression
4 or whatever, and you look for something to fill in, and
5 there's nothing there. So we're going to fill out
6 prejudgment interest. In other words, if they check that,
7 they ought to know what they're doing.

8 We don't see any sense anymore -- I certainly
9 don't -- as to some of your RICO findings. For instance,
10 questions No. 7, 8, 9 -- I'm wondering why they're there any
11 longer. And I'll go over those with you tonight.

12 I'm also thinking, concerning any injunctive
13 relief, that that is the Court's decision, and I'm thinking
14 about taking it out of the instructions. And I'll talk to
15 you about that tonight also. I think it's confusing for the
16 jury.

17 So anyway, I'm going to meet you at 6:00 o'clock
18 or a little after. You are going to sit down quietly as a
19 group so you can discuss these. You can make more than one
20 copy.

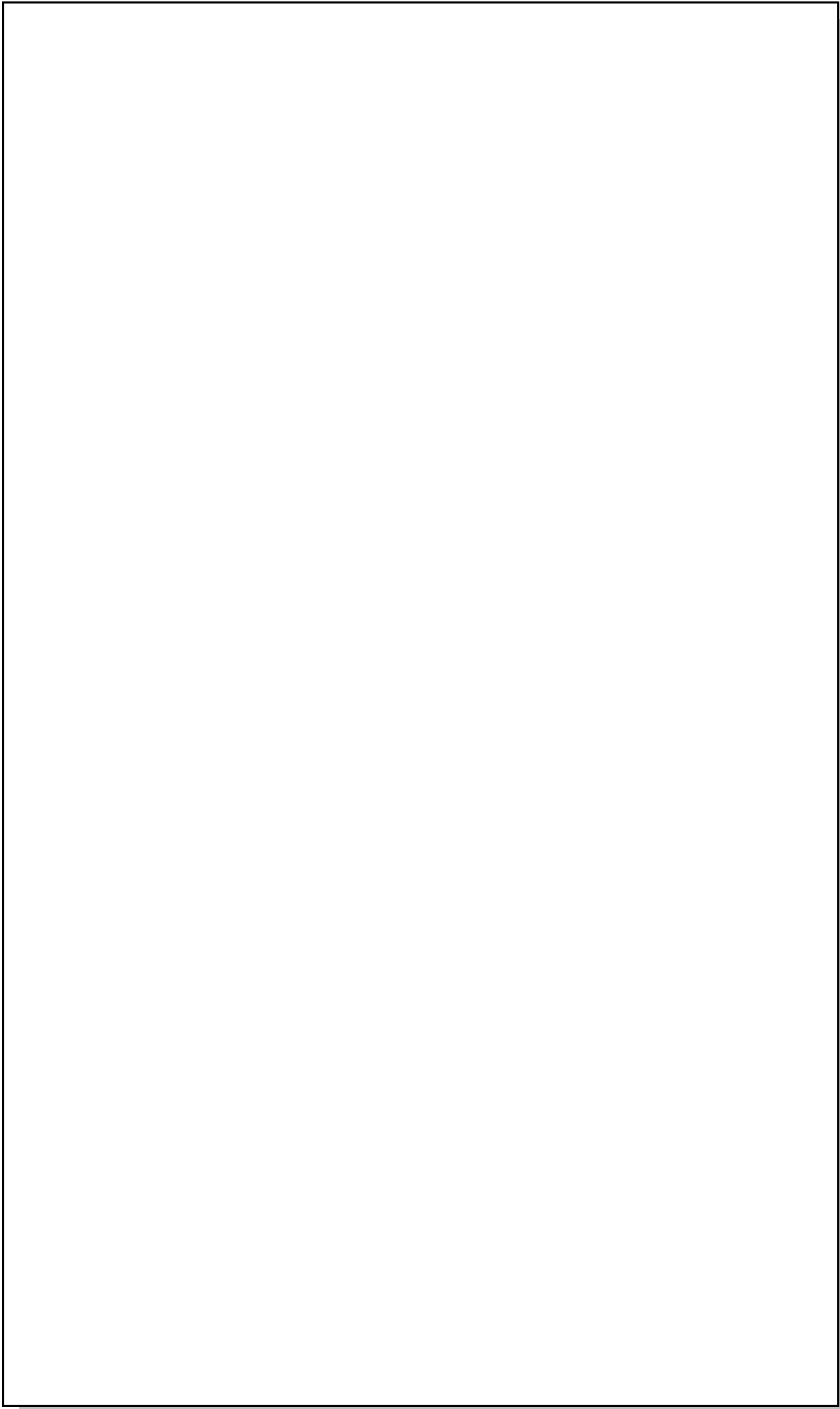
21 These are the Court's final ruling. They're not
22 subject to debate anymore.

23 All right. Thank you very much.

24 (At 4:55 p.m., proceedings were adjourned.)

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3 CERTIFICATE

4
5 I hereby certify that pursuant to Section 753,
6 Title 28, United States Code, the foregoing is a true and
7 correct transcript of the stenographically reported
8 proceedings held in the above-entitled matter and that the
9 transcript page format is in conformance with the
10 regulations of the Judicial Conference of the United States.

11
12 Date: May 7, 2008

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15 _____
16 DEBBIE GALE, U.S. COURT REPORTER

17 CSR NO. 9472, RPR
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