

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 17, Volume III
NDS GROUP PLC, et al.,)	
)	
Defendants.)	
_____)	

REPORTER'S TRANSCRIPT OF PROCEEDINGS

Jury Trial

Santa Ana, California

Wednesday, May 7, 2008

Debbie Gale, CSR 9472, RPR
Federal Official Court Reporter
United States District Court
411 West 4th Street, Room 1-053
Santa Ana, California 92701
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EchoStar 2008-05-07 D17V3

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I N D E X

PROCEEDINGS

PAGE

Defense Closing Argument

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1 SANTA ANA, CALIFORNIA, WEDNESDAY, MAY 7, 2008

2 Day 17, Volume III

3 (1:03 p.m.)

4 (In the presence of the jury.)

5 THE COURT: All right. We're back in session.
6 The jury's present. All counsel are still present. The
7 parties are present.

8 Thank you for your courtesy, Counsel.

9 This is Mr. Snyder continuing his closing argument
10 on behalf of NDS.

11 MR. SNYDER: Thank you, Your Honor.

12 DEFENSE CLOSING ARGUMENT

13 MR. SNYDER: When we broke for lunch, we were
14 talking about the circle of evidence and the evidence from
15 the ICG reports that the plaintiffs rely on. Let me talk
16 now about some of the other evidence that they rely on.

17 The plaintiffs have presented to you a series of
18 witnesses. Every single one of those witnesses is being
19 paid by them. Most of them have grudges against NDS. And
20 all of them provided information to EchoStar and NagraStar
21 long after they had decided that Chris Tarnovsky was
22 responsible for the Nipper posting and, in many instances,
23 after this lawsuit was even filed.

24 Let me take a few minutes to talk about some of
25 these witnesses.

1 I'm going to talk at length about Mr. Ereiser in a
2 few minutes. But you've also heard from Mr. Saggiori.
3 There's an e-mail from Mr. Saggiori they're very excited
4 about. I think you were all here -- I know you were all
5 here when I was questioning Mr. Saggiori and it became very
6 apparent, what effect the money being paid to Mr. Saggiori
7 has.

8 When he was asked in the Canal+ lawsuit, and he
9 was being paid by Canal+, what that e-mail related to, he
10 said, "Oh, it's Canal+ code." Swears under oath that's what
11 it was. Then, in this case when he was getting paid by
12 EchoStar and NagraStar, he said, "Oh, that code in that
13 e-mail, that's EchoStar code. Pay me for that."

14 And the reason he can do that is that is an
15 encrypted e-mail that's encrypted only to his key. So he
16 can attach anything he wants to it and decrypt it. And
17 there's not a person in the world who can decrypt that and
18 tell you what it is or tell you that he's wrong. So when
19 it's convenient, when it suits him, it's Canal+ code; when
20 it's convenient and it suits him, it's EchoStar code. Who
21 knows what it's going to be next week.

22 There's another witness on this list, Mr. Charles
23 Perlman. Now, they didn't bring Mr. Perlman. And I'd like
24 to pause there for a moment and let you ask yourself, why is
25 that?

1 You heard testimony that Mr. Perlman was the
2 administrator on the dr7 website. He was the administrator.
3 That means he could look at what other people were doing, he
4 could see who had registered as what, he could actually
5 control what is available on the website, take things down,
6 put things up.

7 Mr. Perlman was the administrator of the dr7
8 website in December 2000 when these postings were made. He
9 didn't take 'em down. He didn't find out information about
10 the sources of those postings and come and testify and tell
11 you about that. He didn't provide information about the
12 sources of those postings and have that presented to you.

13 Where was Mr. Perlman?

14 There's another person on this list, Larry Harman
15 (phonetic). You heard Mr. Gee testify about Mr. Harman.
16 Mr. Harman is in an asylum, and so I don't think that we
17 ought to put a lot of credibility or a lot of credence to
18 his testimony when he says that whoever posted the Nipper
19 code, he thinks they're in the CIA, which is essentially
20 what he told Mr. Gee.

21 The last person on that list is Larry Pilon.
22 Larry Pilon is also a consultant for NagraStar. Larry
23 Pilon, you heard Billy Joe Osborne explain, was a part of
24 the DISH Plex group. He worked with Dennis Renaud. He was
25 one of the people who knew that they had a scanning electron

1 microscope in Thunder Bay, knew that they had the equipment
2 necessary to do invasive attacks. And they didn't bring him
3 here to testify either, and yet he's working for them.

4 There's some other people who were not on that
5 list, people that you did hear from. They're not paying
6 Marco Pizzo. He came here by himself. He's not being paid
7 by anybody. And he told you that he was xbr21.

8 Anthony Maldonado didn't make any money by coming
9 to testify for you either. In fact, he told you that he
10 wanted to do the right thing for once in his life. He sat
11 in that chair and he told you that he was the person who had
12 gotten those boxes and told you his story.

13 Chris Dalla wasn't getting paid anything for being
14 here either. And he showed up and he sat in that chair and
15 he told you that he was StuntGuy and he was the person
16 responsible for all that information on the Internet.

17 Not one of those three people had any connection
18 to NDS, had any connection to Chris Tarnovsky or testified
19 that they did.

20 Now, there's some other people that they've talked
21 with who weren't in that chair. You didn't hear from Dave
22 Bruce, Andre Sergei, Sean Quinn. These are supposedly
23 people who were part of this distribution network that
24 they've concocted. You didn't hear from any of them.

25 Now, the one person that you did hear from that's

1 supposedly part of the distribution network is Stan Frost.
2 And Stan Frost took the Fifth Amendment. Stan Frost also
3 told you at the beginning of his testimony that he had been
4 chased by DirecTV and NDS, that he had been convicted of
5 DirecTV piracy. Is it any surprise he's not very eager to
6 talk about his involvement in piracy? I don't think so.

7 He took the Fifth Amendment on virtually every
8 single question, including questions like: Did you receive
9 any piracy devices from EchoStar? Did you receive any money
10 from EchoStar? He took the Fifth on both of those
11 questions. He didn't want to talk about piracy, and that's
12 his constitutional right. But given his history with
13 DirecTV and his history with NDS, I don't think it should
14 surprise anybody that that was the right he invoked.

15 Now, let's talk a little bit more about
16 Mr. Ereiser 'cause Mr. Ereiser is the source of a lot of
17 interesting information and a lot of important evidence that
18 you need to consider. And I think that Mr. Ereiser's
19 history is likewise important.

20 Ron Ereiser admitted to you that he was involved,
21 deeply involved in DirecTV piracy. In fact, he was the
22 person who recruited Chris Tarnovsky to DirecTV piracy.
23 Chris Tarnovsky had been involved in piracy before, while he
24 was in the military, providing free TV essentially as a
25 hobbyist. But he wasn't making any money. Then he came to

1 the United States, and he got involved in commercial piracy
2 with Ron Ereiser. Mr. Ereiser was then indicted for his
3 involvement in piracy, and he admitted that to you.

4 He also hacked DirectTV's P2 card which is supplied
5 by NDS. And after hacking that card, he was caught and he
6 was sued by NDS. And he told you about that as well.

7 Mr. Ereiser is apparently a pretty aggressive
8 pirate. You heard Billy Joe Osborne explain that
9 Mr. Ereiser had made death threats against him and others.
10 You also heard Mr. Osborne explain that Ron Ereiser had
11 actually paid somebody to impersonate him so he could go to
12 his mailbox and try and get his hands on an EchoStar hack.
13 And what did Mr. Osborne tell you Ron Ereiser told him when
14 he confronted him about it? "I'd do anything to get my
15 hands on that code."

16 You also heard from Mr. Hasak and saw the evidence
17 that Ron Ereiser worked with Gilles Kaehlin to try and
18 blackmail NDS. They sent NDS and Reuven Hasak materials and
19 said, "If you pay us the right amount of money, we can make
20 sure that everybody stays quiet."

21 I don't think Mr. Hasak is the kind of person that
22 you should try and blackmail. There are probably a lot of
23 reasons for that, but the most important one is he is a man
24 of integrity. And he did not accept that offer, nor would
25 he.

1 And now you see the effects of that. Mr. Ereiser
2 comes here with all the money he's getting paid by
3 NagraStar, and he tells you these stories.

4 What else did Mr. Ereiser do for them?
5 Mr. Ereiser is the person who got thousands and thousands of
6 pages of documents and delivered them to J.J. Gee and Alan
7 Guggenheim in an airport in Canada.

8 I asked Mr. Ereiser about his feelings for NDS,
9 and he certainly didn't equivocate. He admitted that
10 they're not his favorite people. And when I asked him if he
11 told people that he hated NDS, he said, "I suppose I have
12 said something like that, yes."

13 And when I asked him whether he'd told people that
14 he had it in for NDS big time, he said, "I guess it's
15 possible."

16 And finally, when I asked him, "Isn't it also true
17 that you said you hate John Norris," his answer was, "Yes,
18 I'm sure I've said that."

19 Now, there's one big reason that Ron Ereiser has
20 this great antipathy for NDS. NDS worked a very successful
21 undercover operation against him, and you've heard about
22 that operation, code-named Johnny Walker.

23 Ron Ereiser had recruited Chris Tarnovsky to
24 commercial piracy, and NDS had gotten Chris out of that
25 piracy, had gotten him involved in the other side, doing

1 antipiracy work, doing engineering work. But initially
2 Mr. Tarnovsky continued to operate undercover, and he worked
3 against Ron Ereiser.

4 And you heard about that operation, how, with
5 DirecTV's permission, they took software for reprogramming
6 DirecTV devices, sent it to Ron Ereiser so that he could use
7 that to program cards and they would be able to turn it off
8 when they wanted to.

9 Ron Ereiser sent Chris Tarnovsky \$20,000 for that
10 in a number of different shipments, all of them shipped
11 inside electronic devices.

12 Now this is apparently Mr. Ereiser's time for a
13 little bit of payback.

14 Let's take a look at some of the similarities
15 between what they are -- plaintiffs are alleging and what
16 Ron Ereiser is alleging in Operation Johnny Walker. The
17 similarities might surprise you.

18 Both of them involve software that was written by
19 Chris Tarnovsky, Operation Johnny Walker and this case.
20 Both of them involve a programmer that supposedly programs a
21 limited number of cards. You saw the documents about
22 Operation Johnny Walker where it was specifically written so
23 that the dongle they created would only program a certain
24 number of cards so they wouldn't let it get out of control.

25 They allege the same thing in this case in the

1 series of e-mails that were provided only by Ron Ereiser.

2 In both cases there was a central distribution
3 point that supposedly sent out cards and programmers to
4 others. In Operation Johnny Walker it was Ron Ereiser and
5 his actual distribution network. In this case they're
6 accusing Al Menard of being that distribution point and
7 sending it to people like Dave Bruce and Sean Quinn and
8 Andre Sergei.

9 And finally, in both instances there's allegations
10 of money being shipped inside electronic devices. There's
11 no question that Ron Ereiser shipped money to Ron Ereiser --
12 I'm sorry. There's no question that Ron Ereiser shipped
13 money to Chris Tarnovsky inside electronic devices. He
14 admitted it to you. Chris Tarnovsky admitted receiving it.

15 And now one of the allegations in this case is
16 that Chris Tarnovsky received money from the supposed
17 distribution network stuffed inside electronic devices.

18 There's one other thing about Mr. Ereiser that I
19 think you need to focus on for a moment. All of those
20 e-mails, the four e-mails that plaintiffs' attorneys want
21 you to focus on -- Exhibits 989, 990, 991, 988 -- missed one
22 at the front end of that sequence. All of those e-mails
23 were provided by Ron Ereiser. They did not come from Dave
24 Dawson. They did not come from Al Menard. In fact, Al
25 Menard says that they're forgeries, and he explained to you

1 why, why they're inconsistent with his encryption practices.
2 They were all produced by Ron Ereiser as text files. And
3 Mr. Ereiser admitted that a text file is something -- all
4 you have to do is type it in.

5 And what did he say when I asked him about that?
6 "Mr. Ereiser, anybody can type a text file; isn't that
7 right?

8 "Sure. Anybody can type a text file. But if they
9 can copy e-mail with the headers like this and the times
10 that it went through the servers and everything that can be
11 verified, you'll want to hire that guy."

12 That's exactly what NagraStar did. They hired
13 that guy. He's been working for them for years, and within
14 months of the beginning of his deposition, they decided to
15 pay him an extra \$6,000 a month. So he's making about
16 150 grand a year surfing the Internet and assisting EchoStar
17 and NagraStar.

18 Mr. Ereiser is the source, the only source for all
19 of this information. And of all the people in this case
20 with a grudge against NDS, he is by far the biggest.

21 Now let's go back to that similarity that we
22 talked about, the Texas mailbox.

23 It's true, there were two packages found with
24 money in 'em in a mailbox in Texas. NDS did not pay for
25 that mailbox. There is no evidence of that. Doesn't matter

1 what plaintiffs' lawyers tell you. In fact, the evidence
2 was just to the contrary. Mr. Norris told you he didn't
3 know anything about that mailbox until early 2001.

4 You also heard Mr. Cumberland. Mr. Cumberland
5 told you that they found no connection in that mailbox to
6 satellite piracy or in the packages that they intercepted.

7 They never made any arrests, they never filed any
8 charges, they never issued any indictments, they never
9 convicted anybody of anything. But it did lead to an
10 investigation. And you heard Mr. Hasak tell you about that
11 investigation. He got on an airplane, and he came to
12 Southern California so that he could interrogate and meet
13 Chris Tarnovsky. John Norris did the same thing.

14 They were very concerned because the allegation
15 was that Mr. Tarnovsky was involved in DirecTV piracy. And
16 NDS, being DirecTV's conditional access provider, would be
17 very concerned if one of their own employees was involved in
18 DirecTV piracy. And that explains what they asked him when
19 he was being investigated. That explains why they didn't
20 ask him about EchoStar piracy, and it explains why they
21 didn't ask him about any other competitor piracy. There
22 wasn't any allegation at that time that Chris was involved
23 in any of that conduct.

24 The concern was -- the allegation was he was
25 involved in DirecTV piracy. And they determined that that

1 allegation was false, and so they went forward.

2 Later on, however, they found out some information
3 they did not know before, information that the plaintiffs
4 had, information that NDS did not. They found out that
5 there was a fingerprint inside those packages, and that
6 fingerprint apparently belonged to be Merv Main. And
7 Mr. Tarnovsky was confronted with that information, and he
8 didn't have a good explanation for it. And so Mr. Hasak
9 fired him.

10 Now, they want to make a big deal out of the fact
11 that that was days before his deposition. Well, ladies and
12 gentlemen, that's when we got the information. That's when
13 Mr. Hasak got the information, and that's when the decision
14 was made.

15 But let me ask you this: If you've got a
16 long-time employee who's gonna testify in a very important
17 case, and you'd sort of like his testimony to be in your
18 favor, do you fire him right before he goes into the
19 deposition? I don't think so.

20 Mr. Tarnovsky took the stand. Mr. Tarnovsky
21 testified under oath in his deposition and said, "I have
22 nothing to do with EchoStar piracy. I had nothing to do
23 with DirectTV piracy. I don't know where the money in those
24 mailboxes came from."

25 I don't know either. But there's something about

1 the timing of those boxes, the packages in those boxes that
2 is a little bit suspicious.

3 Let's take a look at Mr. Ereiser's history with
4 NDS. In June of 1997 Mr. Ereiser was indicted for piracy
5 involving NDS and DirectTV. And later that year, NDS
6 launched Operation Johnny Walker. Seven months later NDS
7 got more than a 14 million-dollar judgment against
8 Mr. Ereiser. And later that same year, Mr. Ereiser sent
9 money hidden inside electronic devices to Chris Tarnovsky,
10 part of the Operation Johnny Walker.

11 Now, February 2000, based on some of the results
12 from Operation Johnny Walker, NDS and DirectTV sued Ron
13 Ereiser again. And only a few months later, Mr. Ereiser, by
14 his own admission in July 2000, agreed to start working with
15 and helping NagraStar. The very next month those packages
16 show up in Texas.

17 Mr. Ereiser is the only person who you heard any
18 testimony from who ever sent money to Chris Tarnovsky hidden
19 inside electronic devices. You did not hear from Chris
20 Tarnovsky or any other witness that that had happened. And
21 suspiciously enough, those packages in Texas showed up one
22 month after Ron Ereiser agreed to start working with
23 NagraStar.

24 Now, plaintiffs' evidence comes from more than
25 just paying witnesses. They've apparently also paid for

1 documents. You heard Mr. Gee admit that he'd paid \$5,000
2 for a copy of documents that had been stolen by someone
3 named Igor Serebryany, DirectTV documents that relate to the
4 P4 card which was designed and developed by NDS. Mr. Gee
5 acknowledged that they were highly sensitive DirectTV
6 documents regarding the P4 technology. And when he was
7 asked why he took them, all he could say was that he was
8 curious. It seems like a lot of money for curiosity over
9 documents for the P4 card when Mr. Gee is hardly a technical
10 person.

11 You also heard from Mr. Gee that he bought cards,
12 also P4 cards, tried to get modified and virgin cards from
13 "satansplayhouse." And he was asked, "Why would you do
14 that?" And again, the only answer that he could come up
15 with was "Curiosity."

16 Now, I mentioned before that they had gotten
17 thousands of pages of documents from their consultant, their
18 informant Ron Ereiser. We were gonna wheel all those
19 documents in here, but it's about 26,000 pages, and we
20 didn't think we needed to kill that many trees. So we
21 actually did a stipulation with the plaintiffs' counsel to
22 list out the numbers. And that stipulation, as Judge Carter
23 will tell you when he gives the instruction, is just as
24 binding as any other evidence because it's an agreement
25 between the parties.

1 And as part of that stipulation, the parties
2 agreed that the documents bearing the Bates stamp
3 Nos. ESC0129863 through ESC0155899 are copies of documents
4 that Ron Ereiser provided to Alan Guggenheim and Jerry Gee.
5 If you do the math on those page numbers, there's just over
6 26,000 pages of documents.

7 And you heard Mr. Ereiser explain that he knew
8 those were internal NDS documents. He'd done searches on
9 them because he was interested to see what they might show
10 about him. He told Mr. Gee and Mr. Guggenheim that they
11 should come get the documents because he thought they would
12 be helpful to his case. And you heard them testify that it
13 was because they were internal NDS documents.

14 And when we asked Mr. Guggenheim and Mr. Gee if
15 they knew where the documents came from, they said no. Why
16 not? Not because someone refused to tell them. Because,
17 they claimed, they never asked.

18 Now, if somebody has some information that you
19 think might be useful in a very important lawsuit, and
20 you're not sure where it comes from, you ask. The only
21 reason you wouldn't ask is if you already know or if you
22 just don't want to know. And you can't blind yourself to
23 that kind of theft.

24 Even after we started talking to Mr. Ereiser about
25 those documents, he actually went and destroyed information

1 about them. I asked him the following: "You didn't ask
2 questions about the stolen documents. You just thought that
3 this was good stuff?

4 "Good stuff, bad stuff, green stuff, yellow stuff,
5 I didn't ask questions. It just didn't matter."

6 Then I asked him: "So about a week and a half
7 before your deposition in this case, you erased all evidence
8 of those e-mails from your computer?

9 "Yes. When I was ordered to erase them, I erased
10 them. I took the original copies and gave them to my lawyer
11 in Victoria.

12 "Now, when you say you were ordered to erase them,
13 you mean you were told by your lawyer, correct?

14 "Yes.

15 "This was the lawyer that NagraStar was paying
16 for?

17 "Yes."

18 So if we want information about those documents,
19 what was done with them, when they were accessed, answers to
20 any of those questions, Mr. Ereiser and the lawyer paid for
21 by NagraStar made sure that we would never see it, and more
22 importantly, that you would never see it.

23 These documents, however, contain significant
24 information. You heard from Mr. Dov Rubin -- actually
25 Dr. Dov Rubin, about a few of these documents. One of them

1 is Exhibit 366. And he explained how that document contains
2 secret information about NDS's system, information that
3 would damage NDS in the hands of a competitor.

4 You also heard him describe Exhibit 1270. This is
5 the exhibit that they're -- plaintiffs are so fond of
6 talking about. And it contains information about how NDS
7 can control its system, can control its signal, how it can
8 target ECM's and blackout messages that is also proprietary.

9 You also heard Dr. Dov Rubin talk about
10 Exhibit 391. And Exhibit 391 is an important document for a
11 couple of reasons. One is it contains some very sensitive
12 information between NDS and its customer DirecTV about one
13 of its cards.

14 You also heard -- it's also important for another
15 reason. It shows that NDS was also working with its
16 customers to evaluate the vulnerabilities in their own
17 cards.

18 In talking about the Headend Report, plaintiffs'
19 counsel challenges, they said, "Show us a document where NDS
20 does the same kind of analysis on its own cards that they
21 were doing on the EchoStar card."

22 Now, I'm not gonna tell you that Exhibit 391 is
23 exactly that kind of report, 'cause it's not an internal NDS
24 engineering report. But it does show NDS and DirecTV
25 covering precisely the same kinds of topics: What are the

1 vulnerabilities in the card? How do you attack the card?
2 How would you circumvent the card? And how would you
3 protect against that?

4 The very kind of information that they're
5 complaining about in the Headend Report was not unusual.
6 This is the kind of engineering you do when your job is to
7 try and be secure, when you're trying to provide conditional
8 access that's not going to be hacked. And that's exactly
9 what Exhibit 391 shows.

10 You also heard about another document from
11 Mr. Reuven Hasak, and that's Exhibit 447. That's an
12 internal operations document regarding operational security.
13 And in that document they talk about a number of informants
14 and the work that they're doing. And, in fact, some of the
15 information in that document relates to Chris Tarnovsky and
16 Ron Ereiser as well as a number of other informants and
17 pirates that NDS was trying to chase down and bring to
18 justice.

19 I asked Mr. Hasak what would happen if that got
20 into the wrong hands. He made it very clear that it could
21 even put Mr. Tarnovsky in danger particularly if this
22 document were in the hands of Ron Ereiser, who was the
23 target of that operation. As Mr. Hasak said, "As mentioned
24 before, pirate community is a violent community, and it
25 would be a big risk."

1 Now, the plaintiffs tried to tell you that these
2 documents somehow show that NDS was engaged in bad conduct.
3 And they actually pull a couple of them out and they show
4 them to you; the main story document, for example.

5 There is not a single one of these documents --
6 and they are not going to show you a single one of these
7 thousands of pages that suggest any involvement in EchoStar
8 piracy, that suggest any involvement in Canal+ piracy, that
9 suggest any involvement in trying to hack or injure a
10 competitor's system.

11 All of these documents are internal documents
12 about operational security and other operations at NDS. Far
13 from supporting the plaintiffs' case, they show that NDS was
14 engaged in legitimate antipiracy and engineering activities.

15 In fact, essentially what plaintiffs are trying to
16 do is take NDS's antipiracy work and somehow make it a
17 nefarious enterprise.

18 NDS actually originated many aspects of the
19 antipiracy program that is now common to conditional access
20 providers. They were the first ones to hire professional
21 investigators in the Smart Card industry. They were the
22 first one to create and join professional organizations
23 dedicated to antipiracy. They were the ones to lobby for
24 antipiracy legislation. They were the ones that started
25 using undercover informants and trying to protect their

1 identities, using something as simple as having them paid
2 through another company.

3 It's hardly suspicious that NDS would take
4 advantage of the opportunity to pay Chris Tarnovsky through
5 HarperCollins when you heard Dr. Peled explain that that's a
6 pretty regular occurrence at the company, to pay someone
7 through another entity when doing that allows them to keep
8 Chris Tarnovsky's identity secret even within the company.

9 And you heard Mr. Hasak, Mr. Norris and even Chris
10 Tarnovsky explain that they were so concerned about
11 information getting out about Mr. Tarnovsky that even within
12 the company they used an alias. Most people within the
13 company weren't even allowed to know that he had been hired.
14 And so it hardly seems surprising that they would pay him
15 for a few years through HarperCollins.

16 Now, they tried to focus this morning on one
17 exhibit, Exhibit 189. And it's a long message from Ray
18 Adams. And in it, according to plaintiffs, they're asking
19 for more money. And if you take a look at Exhibit 189
20 during your deliberations, I think you're going to find that
21 he is asking for more money. But he's not asking for more
22 money to hack competitors. He's not asking for money to
23 increase piracy.

24 Take a look at that document if you have any
25 questions at all. He is asking for more money to fight

1 piracy. They're concerned about piracy against NDS. And
2 he's asking for an increased budget to try and fight that
3 piracy.

4 There is nothing suspicious or dangerous or wrong
5 about that e-mail or anything in it. And, in fact, NDS's
6 innovative antipiracy program worked. They were able to
7 take some very dangerous pirates and turn them to a life
8 that was focused on antipiracy.

9 They were able to take down hundreds of websites,
10 one of which is dr7. And don't you think it's interesting
11 that the one site that is the focus of this case was taken
12 down by NDS, not by the plaintiffs? You heard Mr. Menard
13 testify to that. You heard Mr. Norris testify to that. The
14 company that went after dr7 and ultimately shut him down was
15 NDS.

16 Now, Chris Tarnovsky is an example of some of the
17 effectiveness of NDS's antipiracy program. When they hired
18 Chris Tarnovsky, it is true and everyone acknowledges that
19 there was a theoretical risk that Mr. Tarnovsky would
20 continue in piracy. But you heard Mr. Hasak and Mr. Norris
21 explain why they thought that that risk was controlled,
22 particularly given Mr. Tarnovsky's background.

23 They took a number of steps to try and make sure
24 that Chris did not participate in piracy going forward.
25 They actually relocated him across the country so that he

1 could be close to John Norris and John Norris could visit
2 him regularly. They communicated with him almost daily,
3 face to face, on the telephone, by e-mail.

4 They made it very clear -- when I say "they,"
5 Mr. Hasak and Mr. Norris and the people that Chris Tarnovsky
6 worked with -- made it very clear to him that he was not
7 supposed to participate in any illegal conduct, including
8 piracy.

9 They were also able to monitor his online
10 postings. And you heard about NDS's unit in Jerusalem that
11 monitors the Internet. So if Chris Tarnovsky were making
12 postings, they would be able to know about that. And
13 finally, they were able to cross-reference Chris Tarnovsky's
14 information with other sources to make sure that they knew
15 what he was doing.

16 Now, the plaintiffs want to take some of Chris
17 Tarnovsky's conduct, his perfectly legitimate antipiracy
18 conduct, and they want to make it into something sinister.

19 Let me give you some examples of that. They put
20 up a slide and said to you, "Chris Tarnovsky participated in
21 DirecTV piracy even after he was hired by NDS."

22 Do you remember that slide? What are they talking
23 about? There is evidence that Chris Tarnovsky participated
24 in DirecTV piracy after being hired by NDS: Operation
25 Johnny Walker. And other than working undercover to try and

1 bring down Ron Ereiser, one of the most dangerous pirates
2 around, there is no other evidence of Chris Tarnovsky being
3 involved in DirectTV piracy after he was retained by NDS.

4 They also asked you to look at Exhibit 51, which
5 is an e-mail that John Norris sent about Chris Tarnovsky
6 reprogramming a DirectTV card. First they told you it was an
7 EchoStar card but, of course, that's false. There's no
8 evidence that Chris Tarnovsky ever did that.

9 He did reprogram a DirectTV card, though, to
10 receive EchoStar programming. Is there something sinister
11 or dangerous about that? No. Chris Tarnovsky explained
12 that to all of you. He said that he had seen a program on
13 the Internet that reprogrammed DirectTV cards to receive
14 EchoStar programming, and because it involved cards supplied
15 by NDS, they were very concerned about that. So he tested
16 the program. And he tested it for his boss, John Norris.

17 That doesn't make Chris Tarnovsky a criminal.
18 That doesn't mean that he's engaged in EchoStar piracy. He
19 was engaged in exactly the antipiracy effort for which NDS
20 hired him.

21 They also want to try and make something sinister
22 out of the fact that we haven't paraded around every one of
23 Chris Tarnovsky's hard drives. But I thought we had put
24 that issue to rest a long time ago. You heard Nigel Jones
25 testify that there was more than a terabyte of information

1 on Chris Tarnovsky's hard drives, that it had all had been
2 preserved, and it had been keyword searched. I believe he
3 said he looked through six pages of keywords and couldn't
4 imagine what wasn't included in that long list. He then
5 reviewed every single document that was identified as a
6 result of those searches. And you heard Mr. Jones testify
7 that he did not see a single document that implicated Chris
8 Tarnovsky in any kind of EchoStar piracy.

9 And every one of those documents was equally
10 available to the plaintiffs. And they did not come in here
11 and bring to you a single document to say, "See, this is
12 what was found on Chris Tarnovsky's computer when we ran
13 these searches," because there isn't anything that helps
14 their case.

15 Let me give you one more example of how they're
16 trying to take legitimate activity and make it into
17 something suspicious. They showed you a picture of the
18 sniffer earlier this morning. It's a device that
19 Mr. Tarnovsky created. He created it for antipiracy
20 purposes. And you heard him and Mr. Norris explain how it
21 is now actually used very successfully for antipiracy
22 purposes.

23 Now they want to say, "Well, Mr. Dionisi heard
24 that description, and it sounded a lot like the device he
25 saw Al Menard use to reprogram 52 cards; so therefore, Chris

1 Tarnovsky must be at the head of this distribution network."

2 We asked Mr. Dionisi, "Was there any indication
3 from Mr. Tarnovsky or Mr. Menard that they were working
4 together to engage in any kind of piracy at all?"

5 And he said, "No."

6 This is something that they've tried to put
7 together to take a perfectly legitimate device and make it
8 sound sinister because it suits their purposes.

9 That device was created for antipiracy purposes.
10 It's been used for antipiracy purposes, and there is no
11 evidence to the contrary.

12 You've also heard substantial evidence that NDS
13 has tried to assist its competitors with piracy,
14 particularly since it was so far ahead in its antipiracy
15 program. You heard John Norris take the stand and explain
16 how he had told and volunteered to Charlie Ergen that he
17 would assist them in antipiracy.

18 And Mr. Ergen actually gave him his direct-dial
19 phone number. I think we can all bet that it's been changed
20 by now. But they acknowledged that that was, in fact,
21 Mr. Ergen's personal direct-dial number.

22 You also heard Mr. Norris testify that he tried to
23 call that number and assist them. He got hold of Mr. Ergen.
24 Mr. Ergen transferred him to Mr. Guggenheim. And Mr. Norris
25 actually tried to give Mr. Guggenheim a tutorial on how you

1 work with law enforcement effectively to assist in
2 prosecutions of pirates.

3 You heard Mr. Hasak explain how NDS had worked
4 with Irdeto to bring a pirate in Southeast Asia, named Mad
5 Max, to justice.

6 And finally you heard Mr. Hasak explain that in
7 the UK where Nagra is the conditional access provider for
8 the cable systems, NDS is actually extremely active in
9 trying to combat piracy of a Nagra system.

10 One other thing you've heard about throughout the
11 course of this trial is that plaintiffs do virtually ever --
12 the same things, virtually everything that they're
13 complaining about for NDS. You heard yesterday that
14 plaintiffs -- Nagra engages in reverse-engineering a
15 competitor's conditional access system, the BBCO project.

16 They denied that in the past, and then we found
17 out yesterday that that wasn't true, that they'd had a
18 multimillion-dollar, two-year project to try and break into
19 the chip used by the Motorola box, the ACE project.

20 You heard them -- about purchasing competitors'
21 Smart Cards -- and in particular, the P4 card. We've seen
22 e-mails in which they were being instructed to analyze NDS
23 ECMs. You saw e-mails in which they collected ROM dumps for
24 the HU card, which is an NDS card, and sent it to
25 Switzerland to be analyzed.

1 You saw numerous e-mails about them purchasing
2 pirate devices for NDS. You saw numerous pieces of evidence
3 in which they were purchasing competitor pirate devices for
4 competitors' systems, particularly NDS's.

5 And you've certainly heard evidence about how
6 they're employing pirates. The difference is, instead of
7 using them for undercover operations, using them to bring
8 other pirates to justice, they primarily used them for
9 witnesses in this case.

10 You've also heard evidence about how they use
11 those pirate devices. They want to complain about
12 Chris Tarnovsky doing an experiment where he reprogrammed a
13 DirecTV card. But you heard about no less a person than
14 Mr. Ergen, the CEO of EchoStar, during a meeting with
15 Dov Rubin tell someone at EchoStar to "light this up like a
16 Christmas tree," take a pirate DirecTV card and put it in
17 the system.

18 My point here is not that they're just as bad as
19 NDS. To the contrary, my point is that all of these things
20 are legitimate activities. There's nothing wrong with them.
21 Piracy is wrong. Piracy is illegal. But this conduct, this
22 conduct when it's used for antipiracy is perfectly
23 legitimate. And in each one of these instances, that's what
24 NDS was doing. And they're gonna stand up, and they're
25 gonna tell you, "Yeah, NagraStar and EchoStar did these

1 things, but it was okay because we did them for legitimate
2 reasons." And that's the same -- the same is true for NDS.

3 Now, let me pause for a moment and talk about
4 reverse engineering because you've heard a lot about reverse
5 engineering, and you've heard a lot about the Haifa lab and
6 NDS's various reverse-engineering projects. But there are a
7 lot of things about reverse engineering that are worth
8 emphasizing.

9 First of all, reverse-engineering is legal and
10 routine, and when Judge Carter instructs you, he's going to
11 tell you that reverse engineering is legal. He's going to
12 tell you that piracy is illegal. He's going to tell you
13 that if reverse engineering turns into piracy, it is
14 illegal. And NDS does not dispute any of that. But reverse
15 engineering by itself is legal.

16 You also heard Mr. Jones explain that the
17 techniques that Haifa used were described in a publicly
18 available article in 1996. There wasn't any big secret
19 about that. In that same article, Mr. Anderson reported
20 that pay-TV pirates had already used that same technique to
21 attack a pay-TV system.

22 And then that same year, 1996, there were actually
23 hundreds of labs around the world that were capable of using
24 those invasive techniques to hack a system. And earlier
25 today we saw some of the pirates who had those -- that

1 ability: The lab in Thunder Bay, the group in Barrie,
2 Ontario, the EROM group, the people who were supplying
3 StuntGuy, Chris Dalla, with all that information. You heard
4 from Mr. Jones that those labs could be rented for less than
5 \$10,000. And, in fact, you even heard from Mr. Ereiser how
6 they used -- they rented time on one of those labs in
7 Montana to hack the NDS card.

8 You also heard from plaintiffs' expert,
9 Dr. Avi Rubin. He's an expert in reverse engineering.
10 There's no doubt about that. That's what he does
11 professionally. He calls it responsible disclosure.

12 But compare for a moment what Dr. Rubin does to
13 what NDS does. NDS engaged in a project that they intended
14 to keep forever secret other than to use it to improve their
15 own products. Dr. Rubin reverse-engineered the iPhone, and
16 what did he do with the information? He contacted Apple,
17 and he said, "I'm going to disclose this information." He
18 didn't say, "I'm going to disclose it if you approve." He
19 didn't say, "I'm going to disclose the information unless
20 you do X." He said, "I'm going to disclose the
21 information." So perhaps he did them the courtesy of
22 letting them know in advance it was coming out, but his
23 point from the very beginning was disclosure of the
24 information.

25 That was never NDS's goal. You heard

1 Mr. Mordinson and Mr. Shkedy describe the extreme efforts
2 they went to, to maintain the confidentiality of that
3 information. They weren't engaged in responsible
4 disclosure; they were engaged in nondisclosure. And that is
5 far less than what Dr. Rubin does and what Dr. Rubin
6 considers legitimate.

7 Finally, you've now heard evidence that plaintiffs
8 engaged in reverse engineering. When Mr. Nicolas was on the
9 stand, he was asked: "Has NagraCard or NagraVision ever
10 engaged in any efforts to develop any software applications
11 or reverse engineering or hacking any of its competitors'
12 technology?"

13 "ANSWER: That's correct. We never developed any of
14 those tools or software."

15 But that was not quite true. You heard Dan DeHaan
16 explain yesterday that they had -- Nagra had a
17 multimillion-dollar project to get into the Motorola ACE
18 chip to try and design a competitive product and take market
19 share away from Motorola.

20 Now, NDS has never denied the existence of the
21 Haifa Research Center. It has never denied that it was
22 engaged in reverse engineering. It never denied it engaged
23 in reverse engineering the EchoStar chip. In fact, you
24 heard Dr. Peled, the CEO of the company, come and explain to
25 you where he thought that was important.

1 When he arrived at NDS in 1995, he thought their
2 technology was deficient. He thought that they were badly
3 pirated, and he wanted to develop more secure chips. And he
4 told you about the multiprong program he had to do that.
5 One part of that was improved research and development,
6 hiring literally hundreds of engineers to make better chips.
7 Some of those engineers were trained and tasked with
8 precisely the process of attacking NDS technology, attacking
9 other people's technology in the hopes of making NDS
10 technology better.

11 Now, they told you in the opening that we would
12 not be able to show you any improvements that were made as a
13 result of NDS's reverse engineering efforts, and they
14 repeated that again for you this morning. But that is not
15 what the evidence is.

16 Mr. Shkedy and Mr. Mordinson both identified at
17 least three specific ways in which NDS's card have been
18 improved because of their reverse engineering efforts. One
19 of them is, they implemented specific countermeasures
20 designed to prevent against glitching. Another one was that
21 they divided the memory in the card to prevent unauthorized
22 access. They called it mixing the blocks. You take the
23 different parts of the design, and you scramble them up so
24 the pirates can't readily identify what they are. You heard
25 Mr. Shkedy explain that one of the ways they were able to

1 get into cards was the instruction latch. In fact, that was
2 one of the techniques they were able to use to get into the
3 EchoStar card. They now know that that was eliminated from
4 NDS chips, and they know that because when they were trying
5 to reverse-engineer NDS chips, they found out that there
6 wasn't one.

7 Part of NDS's legitimate reverse-engineering
8 activity is testing their techniques, seeing if their
9 information works. And this is another aspect of what NDS
10 does that the plaintiffs now want to try and make sound
11 suspicious or wrong in some way.

12 It's true that they had to get cards and devices
13 to work on. If you're gonna reverse-engineer a card, you're
14 gonna have to take it apart. So they had to get cards.

15 So they did get cards. And they showed you an
16 e-mail, Exhibit 391, where they're talking about getting
17 cards. And is it any surprise that they point out in that
18 e-mail that they don't want to be able to trace where the
19 cards come from? This was, after all, a secret project.

20 Now they make a big point of telling you that one
21 of the boxes that is mentioned in that e-mail actually
22 traces to Chris Tarnovsky. I don't think that should
23 surprise anybody, either. You heard Mr. Hasak say that when
24 they needed equipment, they went to the people who were in
25 those local areas to get it -- cards and boxes, et cetera.

1 But there's one thing they didn't tell you, and
2 that omission is enormous. They did not tell you that that
3 box connected to Mr. Tarnovsky was connected to any piracy
4 of any sort. All they did was, they said that that number
5 in that e-mail traces to Chris Tarnovsky.

6 There are also card numbers in that e-mail. And
7 if you look at the very same exhibit that traces the set-top
8 box number to Chris Tarnovsky, it traces those card numbers.
9 Those card numbers don't go to Chris Tarnovsky. And those
10 card numbers, even more importantly, are not connected to
11 any piracy whatsoever. There is no evidence of that at all.

12 Now, part of plaintiffs' theory is that somehow
13 Chris Tarnovsky saw the Headend Report, and that he took a
14 piece of that Headend Report, and he published it on the
15 Internet. And we told you in the opening that the evidence
16 was going to be conclusive that Chris Tarnovsky did not see
17 the Headend Report, any part of the Headend Report, until
18 after those postings had already been made in December of
19 2000. And I think that we have fulfilled that promise to
20 you.

21 Let's take a look at that sequence of events. The
22 Headend project was from April to November of 1998, and as
23 you've heard many, many times, the Headend Report,
24 Exhibit 98, is from early November 1998. The postings, of
25 course, are in December of 2000. The record is

1 uncontroverted that Chris Tarnovsky did not see any part of
2 that report until August of 2001. But you heard Chris
3 Tarnovsky testify to that, you heard David Mordinson testify
4 to that. But you don't have to take just their word for it.
5 There are two specific e-mails both before and after that
6 visit that help you identify the specific date.

7 In Exhibit 1452, Mr. Mordinson and Chris Tarnovsky
8 are exchanging e-mails about the planning of their meeting.
9 And they say, "So we're sealed on August 1st." Then, in
10 Exhibit 1443, Mr. Tarnovsky, using the alias George Michael,
11 reports to his boss, John Norris. In his weekly report, he
12 says, "This week has been spent with David" -- David
13 Mordinson. And that e-mail is sent August 10th, the very
14 next week.

15 Now plaintiffs somehow think it's suspicious that
16 David Mordinson would show Chris Tarnovsky a couple pages
17 from that report to try and settle a fight. And, in fact,
18 the subject matter of that fight confirms that it had to
19 have been after the December 2000 postings because the fight
20 was about those postings and the effect of the ECM.

21 Now, you saw David Mordinson testify at some
22 length, and you saw Mr. Tarnovsky testify at some length.
23 After spending some time with them, I don't think it's at
24 all surprising that they would fight about whether an ECM
25 were effective or not. These are both two very intelligent

1 guys who are focused on precisely this technology.

2 One of them thought the hole could not be closed.
3 Mr. Mordinson said he analyzed the card, and it couldn't be
4 done. Mr. Tarnovsky said he was wrong. He said they did
5 close the hole. They fought about it. They fought about it
6 for a long time. They fought about it so much that they
7 went out, bought an EchoStar receiver, brought it back to
8 the house, and tried the hack on it and it didn't work.
9 Chris was right, and Mr. Mordinson admitted that he was
10 wrong.

11 That explains exactly why they had -- that
12 David Mordinson showed a couple of pages of the Headend
13 Report to Chris Tarnovsky, and it confirms without any doubt
14 exactly when that took place because there was no reason for
15 them to have that fight unless it was after the postings
16 and, in fact, after the ECMS.

17 Plaintiffs also want you to draw some inference
18 about NDS's conduct in this case because of allegations that
19 were made in the Canal+ case and because NDS also engaged in
20 reverse engineering of the Canal+ card.

21 Just like with EchoStar, there is no doubt, there
22 is no dispute, and NDS doesn't deny that it
23 reverse-engineered the Canal+ card back in 1998. As soon as
24 it heard an allegation that NDS was involved in that posting
25 in some way, Reuven Hasak did an investigation. He was not

1 comfortable doing the investigation himself, so he hired
2 someone else to do the investigation. And he explained that
3 to all of you. He said, "I asked one of my partners,
4 Mr. Melca, to run a thorough investigation in Haifa to try
5 and find out what are the loopholes in the security system
6 in Haifa.

7 And there he checked the system, he talked to the
8 employees, he checked the guarding company, he talked to
9 people who worked on the same floor, he checked all the
10 access control -- I mentioned it -- and he checked the
11 access to the computers. And it took about four weeks -- or
12 three or four weeks -- and then he was asked, "During the
13 investigation, did they find any evidence that someone at
14 NDS was involved in posting that Canal+ code on the
15 Internet?"

16 "No."

17 Likewise, there was never any evidence whatsoever
18 that Chris Tarnovsky was involved in posting Canal+ code.
19 The only evidence that you've heard is that
20 Oliver Kommerling made that allegation.

21 And let's pause for a moment and think about when
22 that happened and what was going on at the time. I talked
23 earlier about the circle of evidence and how it actually
24 turns out that Canal+ and EchoStar and DirecTV had a very
25 close -- a much closer relationship in 2001 and 2002 than

1 they ever would have let on.

2 In September 2001, when Oliver Kommerling and Dr.
3 Abe Peled had that dinner, Oliver Kommerling wasn't an NDS
4 employee. He was working for a joint venture, ADSR. And you
5 heard Dr. Peled explain who that biggest -- that company's
6 biggest customer was: Canal+. And you also heard Dr. Peled
7 explain that at that very same time Canal+ was up to some
8 very interesting conduct trying to acquire NDS.

9 And it was only a few months later that Canal+
10 invested a billion and a half dollars in EchoStar.
11 Actually, its parent company, Vivendi, invested a billion
12 and a half dollars in EchoStar to aid it with the
13 acquisition of DirecTV.

14 These allegations were not evidence of misconduct
15 by NDS. They were not evidence of misconduct by
16 Chris Tarnovsky. All they were, were more of the circle of
17 evidence that they want to try and get to you believe.

18 But the main issue in this case and the issue that
19 plaintiffs told you that you have to decide is whether those
20 postings are somehow connected to the reverse-engineering in
21 Haifa.

22 MR. SNYDER: And I think, Your Honor, before I
23 turn to that, it would be a good time for a break.

24 THE COURT: You're admonished not to discuss this
25 matter amongst yourselves nor form or express any opinion

1 concerning the case.

2 We'll come and get you about a quarter after the
3 hour. Have a nice recess.

4 Okay. Have a nice recess, Counsel.

5 We'll see you a quarter after the hour.

6 MR. SNYDER: Thank you.

7 (Recess held at 1:57 p.m.)

8 (Proceedings resumed at 2:17 p.m.)

9 (In the presence of the jury.)

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

11 The jury's present. All counsel are present.

12 Counsel, thank you for your courtesy.

13 Mr. Snyder, if you'd like to continue with your
14 closing argument.

15 MR. SNYDER: Thank you, Your Honor.

16 When we broke, I promised you that I would talk
17 about the lack of any connection between NDS's Headend
18 project and the postings that were on the Internet.

19 There is no doubt that on December 23rd,
20 Marco Pizzo posted on the dr7 website a recipe for getting
21 into an EchoStar card. And there is no doubt that on
22 December 24th, NiPpEr2000 posted on PiratesDen a card --
23 code from a card that had been reprogrammed to receive all
24 permissions, a 3M hack. Those postings did not come from
25 NDS. And you heard substantial, un-rebutted expert

1 testimony showing each of you that that was, in fact, true.
2 And I'd like to review that if I could.

3 You first heard from Dr. Avi Rubin, the
4 plaintiffs' expert, and he explained to you that there were
5 four pillars on which his opinion stood: four similarities
6 between those postings and NDS code written by David
7 Mordinson.

8 What he didn't tell you at the time was that all
9 four of those are actually indicative of any buffer overflow
10 attack on the ROM 3 card. In other words, it didn't matter
11 whether they did it in Haifa or in Phoenix, Arizona or in
12 Tampa, Florida or in Barrie, Ontario. If you did a buffer
13 overflow attack on the ROM 3 card, it would have every one
14 of those four attributes. Mr. Nigel Jones explained that to
15 you, and there was no answer. So those four similarities
16 aren't actually evidence of any similarity at all between
17 the postings and Mr. Mordinson's code written in Haifa.

18 What you then heard from Mr. Jones was that there
19 were ten important differences between the Headend Report
20 and the code that was posted on the Internet, the xbr21
21 code.

22 I'm not gonna go through every one of those, but I
23 do want to remind you of some of Mr. Jones' testimony.

24 One of his points, for example, was that the code
25 was different. And he showed you this graphic, where the

1 red identifies the code that is the same, and the gray
2 boxes -- I'm sorry -- the red identifies the code that is
3 different -- it's an important thing to get right -- the red
4 identifies the code that is different, and the gray
5 identifies the code that is the same. And I think there are
6 a total of seven gray boxes on that entire chart. So you
7 can tell the code is different lengths, and the code, in
8 fact, is very different.

9 Another one of the differences that Mr. Jones
10 identified was the way that the code invokes a write
11 routine. The xbr21 code uses a routine that is built in.
12 Uses one line of code. Mr. Mordinson wrote a routine
13 himself, and as a result there are 36 lines of code. You
14 not only heard about this difference from Mr. Jones, but
15 Mr. Mordinson immediately identified this even during a
16 brief review of the code that was posted on the Internet.

17 You also heard from Mr. Jones about a difference
18 in the way that the programs terminate. The xbr21 program
19 terminates by providing a special parameter for a
20 subroutine. The Mordinson code goes into an infinite loop.
21 And as a result, if you try to load Mordinson's code onto
22 the card, it crashes the card. It doesn't work. So this is
23 not only a difference between them, but it is a functional
24 difference.

25 Mr. Rubin showed you a graphic which Mr. Jones was

1 kind enough to color in for us to show us the similarities
2 according to Dr. Rubin. When Dr. Rubin put this up, he
3 said -- and explained to you in front of everybody on an
4 easel -- how this shows that there is similarity in the two
5 programs, the only difference being the one part, the buffer
6 portion, was moved to the end. But Mr. Jones explained
7 there was, in fact, a mistake in this representation, and he
8 corrected it to show that, in fact, when you look at them,
9 they're very different.

10 Mr. Jones also explained several additional --
11 summarized his conclusions regarding these differences.

12 First, they are different in ten important ways.
13 He pointed out that Dr. Rubin agreed that the programs were
14 different. He pointed out that Dr. Rubin's graphics
15 contained highly misleading errors. He pointed out that the
16 four pillars of Dr. Rubin's opinion were actually
17 characteristic of any buffer overflow attack for the ROM 3
18 cards, and he also explained that David Mordinson's
19 methodology was superior, not inferior, as Dr. Rubin
20 alleged.

21 And Mr. Jones explained why it was, in fact,
22 superior in the way it would download, in the maximum size
23 of the shell code and in the index variable that it used.
24 And these differences show that Mr. Mordinson's code was
25 not, in fact, a precursor to the xbr21 posting. That would

1 be almost inconceivable.

2 Now, what was Dr. Rubin's response to all of this
3 testimony by Nigel Jones? Dr. Rubin was here. He was here
4 for much of the trial. Even while Mr. Jones was testifying,
5 he was here. In fact, he came and stood next to all of you
6 to make sure he could see Mr. Jones' presentation.

7 And after Mr. Jones was done, what was Dr. Rubin's
8 rebuttal? He left. He didn't have anything to say. There
9 was no response. He never took the stand and said that
10 there was anything wrong with any of Nigel Jones'
11 conclusions. No other witness took the stand and said that
12 there was anything wrong with Mr. Jones' conclusions.

13 All of the analysis, all of the conclusions that
14 Nigel Jones presented to you are completely un-rebutted,
15 every one of those ten differences.

16 Mr. Jones also had other conclusions that are
17 extremely important to this case. Mr. Jones analyzed the
18 black box code. Now, we don't have the actual block box, so
19 we don't know precisely what code is in there, but Mr. Jones
20 explained that in the files that were produced, there was
21 some code he was able to analyze. And he identified several
22 differences between that code and Mr. Mordinson's code. And
23 there was no response to that, either.

24 Mr. Jones then demonstrated the similarities
25 between the black box code, the xbr21 code, posted by -- the

1 Nipper code posted by xbr21, and Mr. Mordinson's code and
2 showed you the dramatic similarities between the black box
3 code and the code posted on the Internet and the very
4 significant difference between those two and the code
5 developed by David Mordinson in Haifa.

6 Mr. Jones wasn't the only person to identify these
7 similarities and differences. Anthony Maldonado took the
8 stand and said when he saw the code posted on the Internet,
9 he recognized a very important fingerprint in the code that
10 he had in his black box. He said there was a CRC check.
11 And because of that, he could check that, and he could see
12 that it was identical, and he knew that because of that
13 fingerprint the codes were related.

14 Christophe Nicolas said exactly the same thing.
15 He said that the black box code and the code posted by xbr21
16 were related, used the same technique. And now Mr. Jones
17 has explained that those two are the same, and they are
18 different from David Mordinson's code, and there's been no
19 response whatsoever to that testimony.

20 Mr. Jones also explained to you that the code
21 prepared in Haifa was different from any of the code done by
22 Swiss Cheese Productions. And Mr. Jones explained that he
23 had reviewed every one of the files extracted in Haifa and
24 compared it to the code produced by Swiss Cheese
25 Productions, and he prepared this chart that has really

1 little writing on it to show you how every single one of
2 them is different.

3 Plaintiffs could have done exactly this analysis.
4 All of this material was available to them. All of this
5 material was available to Dr. Rubin. If there was some
6 question about any of these conclusions, they could have had
7 someone take the stand and explain to you why it is wrong,
8 but they didn't do that.

9 Mr. Jones explained these opinions to you. He
10 took the time to explain the rationale for you to try and
11 illustrate and demonstrate to you the reasoning behind these
12 conclusions. And there is no response at all.

13 Now, earlier this morning, plaintiffs' counsel
14 tried to talk to you or talked to you about some things that
15 don't make any sense. And he suggested that NDS somehow had
16 a motive for participating in EchoStar piracy because of the
17 failed merger with ASkyB or because of their interest in the
18 DirecTV contract. And I think that those things, when you
19 look at them, have to fall in the category of things that
20 make no sense. The News Corp deal with ASkyB was actually
21 in 1996 when it started. The agreement was in February of
22 1997, and it failed during that year. And it failed because
23 they refused to use the NDS system. There's no dispute
24 about that.

25 So in late 1997 they have this dispute. When were

1 the events that they're complaining about so much in this
2 case? When were the events that they claim destroyed their
3 conditional access system? December of 2000, more than
4 three years later. If there was really some motive to try
5 and destroy EchoStar's system, why do you wait three years
6 until everything is done? The same is actually true of the
7 DirecTV deal.

8 You heard from Ray Kahn. You heard from
9 Dr. Peled. The negotiations over the DirecTV contract were
10 in 1997 when they did a one-year extension and then again in
11 1998. If NDS or anyone else wanted to try and sabotage
12 EchoStar's conditional access system to try and deter
13 DirecTV from entering into a contract with EchoStar, why do
14 you post code in December of 2000? That doesn't make any
15 sense.

16 What plaintiffs want to do is have it both ways.
17 They want to tell you on the one hand that there were some
18 postings and modest piracy in 1998 that somehow was
19 significant enough that it affected these transactions, but
20 it didn't actually affect their conditional access system
21 because they remained secure, and piracy was at a tolerable
22 level. And those things just don't make any sense.

23 And as a result of that, it wouldn't have --
24 wouldn't serve any purpose for employees from News Corp. to
25 some in here and explain to you why EchoStar piracy or NDS

1 had nothing to do with the acquisition -- the merger with
2 ASkyB.

3 You heard from Dr. Peled. He explained to you
4 that News Corp. had no role in any of these decisions. He
5 was the one who decided to reverse-engineer competitor
6 chips. News Corp., none of its executives, had any role in
7 the decision of what -- of the DirecTV contract. That was
8 done by DirecTV -- by NDS, by Dr. Dov Rubin and by Dr. Abe
9 Peled.

10 I will show you something, though, that does
11 perhaps make some sense, and that's EchoStar's acquisition
12 of DirecTV and the suspicious timing that arises out of
13 that.

14 In October of 2001 -- and remember this is just a
15 couple of months after Oliver Kommerling, who was working
16 with Canal+, made his allegations. EchoStar signs an
17 agreement to merge with DirecTV. In September we learned
18 that the DOJ was gonna deny that transaction. The official
19 announcement was in October. And in that same month, in
20 October, EchoStar attempts to intervene in the Canal+
21 lawsuit. Later that year, EchoStar has to pay a
22 600 million-dollar break-up fee. And you heard Mr. Ergen
23 explain that.

24 Then in April, News Corp. announces that it was
25 gonna try and acquire DirecTV. In June of '03, EchoStar

1 filed this lawsuit, and the very next week -- very next week
2 opposed News Corp.'s acquisition of DirecTV citing this
3 lawsuit as one of the reasons. That is a much more
4 plausible explanation for a motive for filing this lawsuit.

5 I'll tell you another explanation. And that is
6 because EchoStar wanted somebody to pay for their card swap.
7 You heard Mr. Kummer admit that when you put Smart Cards in
8 the field, they are eventually going to be compromised, and
9 they are eventually going to be replaced. He says everybody
10 knows that with one exception. Who is that exception?
11 Mr. Ergen. Mr. Ergen, he said, thinks they ought to last
12 forever. And he had to pay money for a card swap, and he
13 wants somebody else to pay for it.

14 You heard from Mr. Mark Jackson about how he met
15 with Dr. Dov Rubin about using NDS as their conditional
16 access provider. The negotiations turned on price, not on
17 whether or not NDS participated in hacking or piracy of
18 EchoStar's system.

19 You heard Mark Jackson take the stand. And when
20 he saw Dov Rubin, what did he say? "Hi, Dov. I didn't see
21 you over there." Ladies and gentlemen, if you think that
22 somebody has caused you hundreds of millions of dollars in
23 damage, if you think that somebody has stolen from you, is
24 that how you greet them? But if you want to do business
25 with somebody in the future, if you're trying to get the

1 best business deal that you can, maybe that is what you do.
2 Maybe you say, "Hi."

3 Now, plaintiffs this morning talked about the
4 different claims in this case, and I'd like to take some
5 time to do that as well. Because one of the things I'm
6 concerned about and NDS is concerned about is that the
7 claims that you have to answer, the questions that you have
8 to answer on the special verdict form, may be a little bit
9 different than you expect.

10 The first of those claims is whether or not NDS
11 violated the Digital Millennium Copyright Act. And it may
12 come as a surprise to you that the question isn't "who's
13 Nipper?" The question is whether or not there's a violation
14 of this particular law, which has some very specific
15 requirements.

16 To find a violation of this statute, EchoStar has
17 to prove that they used a technological measure which
18 effectively controls access to a copyrighted protected work.
19 They did that. There's no dispute about that.

20 Then they have to prove that the defendants
21 circumvented EchoStar's technological measure. There's a
22 big dispute about that.

23 There are two other requirements that you have to
24 keep in mind. They have to prove that this circumvention
25 occurred after October 28, 2000, long after the Headend

1 Report project was done in 1998, long after Mr. Mordinson
2 and Mr. Shkedy had visited the United States and Canada.

3 They also have to prove that each element of the
4 violation occurred in the United States.

5 And even if you assume that everything that
6 plaintiffs have told you is true -- and I certainly don't
7 suggest that you should -- but even if for a moment you did
8 that, think about their distribution network. Where does
9 this all supposedly take place? In Canada.

10 You heard Mr. Gee explain all the people that he
11 ticked off -- even Stanley Frost who lives in New York --
12 Mr. Gee said had his distribution network in Nova Scotia.
13 They tried to get him to say it was in New York. He said,
14 "No, I think it was in Nova Scotia."

15 They have not proved any piracy in the
16 United States after October 2000, much less any piracy that
17 is associated with NDS.

18 And so the first question you're going to be asked
19 on the special verdict form is whether plaintiffs have
20 proved by a preponderance of the evidence that NDS violated
21 the Digital Millennium Copyright Act. And, of course, it's
22 up to you to decide how to answer that question. But based
23 on the evidence, I believe that the answer to that is "no."

24 Now, if you answer that question, you then -- if
25 you answer that question "yes," you then have to determine

1 whether or not damages are appropriate, and plaintiffs have
2 the burden of proving damages. They also have the burden of
3 showing that these damages were actually caused by NDS's
4 conduct.

5 And I think when you review the evidence, you'll
6 find that the card swap that they're complaining about was
7 certainly not caused by anything NDS did; and, in fact,
8 wasn't even caused by the postings about which you've heard
9 so much.

10 When plaintiffs wanted to demand a card swap, they
11 knew exactly how to do it. And this is Exhibit 828 that
12 you've seen so many times.

13 In the second paragraph that we've pulled out,
14 they say, "Kudelski, NagraStar, and EchoStar have also
15 discussed a fix involving the swap-out of Smart Cards to be
16 completed in the next six months."

17 This wasn't after the December 2000 postings.
18 This demand was in 1999. And remember, it's the plaintiffs
19 who are trying to tell you that you are supposed to respect
20 a satellite provider's decision on when to swap cards.
21 EchoStar knew when they wanted to swap cards. They wanted
22 to swap cards in 1999, not after the December 2000 postings.

23 They even knew how to disclose it in their SEC
24 filings. In EchoStar's annual report filed with the SEC for
25 the year ending 1999, they said that ultimately, if other

1 measures are not successful, it could be necessary to
2 replace the credit card-sized card that controls the
3 security of each consumer set-top box at a material cost to
4 us. But now, several years later, nobody remembers this
5 1999 command.

6 Mr. Ergen, the CEO, said that he didn't think he'd
7 seen it. David Kummer, the senior vice president of
8 engineering and systems, said that he might have been told
9 about it; he didn't remember. But he knew he hadn't seen
10 the letter.

11 Mr. Orban, their controller, said that it was the
12 first time he'd ever seen the letter.

13 So in 1999, EchoStar wanted a card swap, but now
14 nobody remembers it. In fact, Mr. Andre Kudelski said he
15 didn't even think it was a real demand. He said it was just
16 some kind of safety net.

17 But let's compare what they did in 1999 to what
18 they did after the 2000 postings.

19 In January of 2000 -- this is Exhibit 812 -- the
20 president of EchoStar, Mike Dugan, said that they had driven
21 piracy back to the hobbyist level. So in January 2001, he
22 writes: "We need a hundred percent focus on this stuff. We
23 have made great progress. We have destroyed the commercial
24 aspect of stealing. We have made it clear this is not
25 commercial and driven back to the hobbyist."

1 There was no demand letter after the posting.
2 There was no disclosure in their SEC filings. Instead, in
3 January of 2001, the president acknowledges that it is at
4 the hobbyist level.

5 It's also clear that they knew about the hole that
6 they are now claiming caused them so much problem. There
7 were several incidents that happened along the way that
8 caused them to be aware of exactly where that hole was.

9 When the code was written in 1996, they
10 intentionally left the hole open. They didn't check the
11 size of the incoming message and whether it would overflow
12 the buffer because they didn't think that there was memory
13 there.

14 In early 2000, Mr. Nicolas met with
15 representatives from STMicro, the manufacturer of the chip,
16 who told them about the memory aliasing. They already knew
17 about the buffer overflow vulnerability, and according to
18 Mr. Nicolas, once you know about the memory aliasing, then
19 you know that it's a problem. So they knew about it then,
20 in early 2000.

21 Then in October 2000, after they received the
22 black box from Mr. Ereiser, they further confirmed it. They
23 knew that that black box actually exploited the buffer
24 overflow vulnerability to create a piracy device. And still
25 they did nothing.

1 What they did do, though, is introduce a new chip,
2 a new card, and that was the ROM 10 card -- I'm sorry -- the
3 ROM 3 card. They actually corrected it with a patch in
4 January. And Mr. Jones showed you the code or the comment
5 to the code where they corrected it. Where they have
6 cleared the LEN and the APDU_index to ensure no buffer
7 hanky-panky. They fixed it.

8 Mr. Jones explained that it was fixed; he said it
9 was completely effective and, in fact, Dr. Rubin also
10 explained that the patch closed the buffer overflow
11 vulnerability.

12 But you don't have to take the experts' word for
13 it. If you look at the internal documents, they
14 consistently describe the hole as being closed. As early as
15 February 2001 in Exhibit 1185, the ROM 3 card was described
16 as secured. VIP rights in some cards blocked cards not
17 affected by update.

18 Then, in March of 2001, in Exhibit 1186, they
19 wrote, "The blocker code that has been published cannot be
20 widely used." So although they continued to report that
21 some cards were behind blockers, they knew as early as
22 March 2001 that that did not affect very many cards, and
23 they were able to control the VIP rights that were mentioned
24 in that first message.

25 By December 11, 2001, in Exhibit 1674, they

1 reported, "Hole closed. Some cards have blocker software."
2 And, in fact, they used that same language in Exhibit 1687,
3 in May of 2002, and Exhibit 1670, in June of 2003, and in
4 Exhibit 1676, in June of 2003.

5 When Mr. Henri Kudelski was on the stand, he told
6 you that he had seen reports that the hole was open. But
7 they never showed you a single one of those. In fact, to
8 the contrary, Nigel Jones said that he had reviewed six
9 large binders that contained every one of Joe Conus'
10 security reports. And in every single one of them, the hole
11 was identified as closed, with one exception: Mr. Jones,
12 NDS's expert, was the one who knew the details. He
13 explained that for 11 days in the summer of 2001, the hole
14 was reopened, and it was immediately closed again. That is
15 the evidence.

16 The hole that was supposedly exploited, the buffer
17 overflow vulnerability, was fixed with two lines of code.
18 It was fixed in January and February of 2001. And other
19 than a very brief period in the summer of 2001, it was never
20 reopened. And as a result of that, it would be nonsense to
21 suggest that the postings that exploited that buffer
22 overflow vulnerability somehow caused the card swap.

23 In fact, let's take a look at the state of piracy
24 of NagraStar's cards about the time of the card swap. In
25 January of 2003 -- and this is from Exhibit 1670 -- they

1 report the DNASP-II card -- this is the ROM 2 card -- was
2 hole open. Some cards have blocker software.

3 For the ROM 3 card, the hole is closed. Some
4 cards have blocker software.

5 For the ROM 10 card, freeware E3M with autoroam
6 blocker code available for nonpatched cards. And for the
7 ROM 11, freeware E3M available for nonpatched cards.

8 The ROM 3 card was the most secure card they had.
9 And consistent with that, you have not seen a single
10 document suggesting that the card swap was a result of the
11 postings or the defects in the ROM 3 card. In fact,
12 Mr. Orban said --

13 "Did anyone say to you that a card swap was
14 necessary because of any postings on the Internet in
15 December 2000?"

16 "ANSWER: I was not aware of that in
17 December 2000, no.

18 "QUESTION: Did anyone tell you in 2004 that the
19 card swap was being done because of something that happened
20 December 2000?"

21 "ANSWER: I can't recall any conversation like
22 that."

23 You have not seen a single document, not one, that
24 suggests to you that that card swap was a result of the
25 December 2000 postings.

1 In fact, the evidence suggests that the reason for
2 this card swap was free-to-air piracy. Mr. Ergen
3 testified -- the very first witness in the case -- the
4 decision to make a card swap wasn't made until 2002, two
5 years after the posting. Until then, ECMs were effective in
6 controlling piracy.

7 Mr. Kummer said exactly the same thing. And what
8 changed in 2002 and 2003 was that FTA piracy became rampant,
9 and that's what took piracy from a tolerable level to an
10 intolerable level. And that was his testimony on the stand:
11 That's when the piracy became an intolerable level for us,
12 and we had to complete the card swap."

13 That card swap was not the result of the postings.
14 It was not the result of any piracy that was caused or
15 associated in any way with NDS. It was the result of
16 free-to-air piracy. And there is no evidence at all that
17 that is connected in any way to NDS. There's not even an
18 allegation of such a thing.

19 There are a few other things related to their
20 claims for damages that I want to point out to you.

21 First of all, NagraStar actually made money on
22 these cards, so if you're gonna award any damages, you
23 shouldn't be awarding any damages to NagraStar. They
24 increased the cost by 50 cents a pop. So of those 9 million
25 cards they sold, NagraStar somehow made a profit of about

1 four-and-a-half-million bucks.

2 The other thing we saw from Mr. Orban is that many
3 of the bases for their costs were mere guesses. Although
4 they had deleted that language from the final report, we
5 showed them the early draft which had exactly the same
6 numbers, and that included phrases like "total guess on the
7 cost," "somewhat of a guess," "a complete guess," "somewhat
8 of a guess, "a guess," again, "a guess."

9 You can't award damages based on those guesses.
10 That would be highly inappropriate.

11 Now, there's one other aspect of the damages that
12 you have to consider if you find that any damages should be
13 awarded at all, and that's mitigation.

14 The plaintiffs have an obligation to mitigate
15 their damages. They have to use reasonable efforts to do
16 that mitigation. And if you find -- and you should only
17 award the amount that could be prevented using those
18 reasonable mitigation efforts -- but plaintiffs did not
19 mitigate their damages. If there were any damages caused by
20 that buffer overflow vulnerability and exposing it, then
21 that card swap or any other action they should have taken
22 should have been taken months and months, if not years,
23 before.

24 They knew, for example, that in 1999, there was --
25 the buffer overflow vulnerability would be corrected in the

1 ROM 10 cards, and that's when the ROM 10 cards were
2 introduced.

3 You heard from Mr. Nicolas: "And the ROM 10 card
4 was not subject to buffer overflow, correct?"

5 "ANSWER: So as we said, we have introduced a new
6 hardware, the ST19 hardware, the ROM 10 and ROM 11. And
7 that ROM 10 and ROM 11 don't have the ROM ghost effect."

8 And so without that ROM ghost effect, as you heard
9 all of them testify, the buffer overflow vulnerability does
10 not work.

11 In the year 2000, long before the postings,
12 EchoStar could have replaced all of those cards. They had
13 the cards ready, but they chose not to. And if they didn't
14 want to take that mitigation step, that's not NDS's fault.

15 Finally, you've heard lots of testimony about a
16 warranty. When EchoStar originally purchased these cards,
17 they had a warranty -- and this is Exhibit 691 with
18 Kudelski -- and that warranty said that Kudelski would
19 replace all outstanding Smart Cards which were delivered by
20 Kudelski no more than 48 months prior to the date of such
21 notice at a cost to Nagra equal to the direct marginal cost
22 of manufacturing the Smart Cards. And, in fact, when
23 EchoStar demanded a replacement in 1999, they cited that
24 paragraph. So they knew about it. There wasn't any secret.

25 So you're left with essentially two possibilities:

1 First, the card swap was not the result of a defect in the
2 card. If it's not the result of piracy, then the warranty
3 doesn't apply. But if it's not the result of piracy, you
4 certainly can't award it as damages.

5 Second, the other possibility is if the card swap
6 was the result of piracy. And if it were, then this
7 warranty ought to apply, and the price should be the direct
8 marginal cost of manufacturing the Smart Cards. But did you
9 hear anything about the direct marginal cost of
10 manufacturing the Smart Cards? Nothing whatsoever. All
11 they told you was that they had a separate agreement.

12 Mr. Kudelski took the stand and said that they did
13 not apply the warranty. They had a gentleman's agreement
14 for some other price. And you saw evidence that that other
15 price actually included a cost-free warranty if the cards
16 needed to be replaced again.

17 Now, there's another aspect of their damages that
18 I need to spend a few minutes talking about, and that's
19 their lost profits.

20 THE COURT: Counsel, you've got about
21 seven minutes. If you want to extend the time, I'll
22 probably grant that, but I'm not going to just extend
23 seven minutes extra for rebuttal. In other words, I'm not
24 going to open up the door for rebuttal for whatever time you
25 need also. So that way it's fair.

1 MR. SNYDER: Okay. Thank you, Your Honor.

2 THE COURT: It's up to you.

3 MR. SNYDER: Judge Carter is going to give you
4 instruction that damages may not be speculative. They must
5 be based on the evidence and not based on speculation,
6 guesswork, or conjecture.

7 The lost profits that they want you to award are
8 based only on guesswork, and the documents make that very
9 clear.

10 In Exhibit 41, Mr. Tarnovsky's e-mail, he makes it
11 quite clear that he is guessing that there are at least a
12 hundred thousand original cards that are professional E3Ms
13 or EchoStar 3M. The other thing he makes clear is that
14 those are not in the United States.

15 If you look at the very next paragraph of his
16 note, he says: "Now that the ROM for two of the three ROMs
17 presently in use by the USA are public." He's not saying
18 that those cards are in the USA. He's saying that the
19 piracy is of two different types of cards of the three that
20 are in use.

21 And this is significant for a couple of reasons.
22 First of all, NDS can only be responsible in this case for
23 ROM 3. The plaintiffs have agreed -- and you'll be
24 instructed by Judge Carter -- that lost profits cannot be
25 awarded for lost profits for piracy of the ROM 2, 10, or 11

1 cards or lost profits due to free-to-air piracy.

2 You've also heard from Mr. Kummer that even he
3 agrees that they are only guesses. He said that everyone
4 has their own guess, their own multiple guesses, but
5 ultimately it's always a guess. You can't award based on a
6 guess, and that is all that you have.

7 You also know that there were multiple ROM
8 versions hacked. We saw that in the earlier reports. It is
9 actually in Mr. Conus' report in Exhibit 824 from
10 January 2001. Both the ROM 2 and ROM 3 card were hacked.

11 And finally, you can't award lost profits based on
12 piracy devices outside the United States. And Mr. Tarnovsky
13 testified that his guesstimate of a hundred thousand
14 included the entire footprint for EchoStar: Mexico and
15 Canada as well.

16 There is no evidence in this case of any piracy in
17 the United States. The alleged distribution network, all
18 the pirates that they've identified, were in Canada with two
19 exceptions: Mr. Maldonado was in the United States, and
20 Billy Joe Osborne was in the United States. But neither one
21 of them had anything to do with NDS. Mr. Maldonado got his
22 piracy devices from Barrie, Ontario, and Billy Joe Osborne
23 obtained his from the DISH Plex group in Thunder Bay,
24 Ontario.

25 Now, I want to go to the second question on the

1 special verdict form -- or the second claim, which is also a
2 Digital Millennium Copyright claim.

3 That claim is also much more complicated than just
4 deciding whether Nipper is somehow connected to NDS.
5 Instead, what you have to decide is whether defendants
6 manufactured, imported, offered to the public, provided, or
7 otherwise trafficked in any technology, product, service,
8 device, component, or part thereof of that meets certain
9 requirements. And you have to decide as a jury that NDS is
10 responsible for meeting each one of those requirements.

11 And like the first claim, you also have to decide
12 that it was conduct after June of 2000, and that each
13 element occurred in the United States.

14 And just like Claim 1, the decision is left to
15 you, but I believe the evidence is consistent in this case
16 that NDS was not responsible for any such conduct in the
17 United States after June of 2000.

18 Now, the third claim is related to the
19 Communications Act. And that claim requires that you find a
20 number of things related to the receipt of EchoStar
21 programming. And again, it requires that you find that it
22 occurred after June of 2000.

23 The only evidence that you've heard of the receipt
24 of EchoStar programming by anyone associated with NDS is
25 Mr. Tarnovsky's experiment in the fall of 2000. One time.

1 Reprogramming of a DirecTV card. And even that one doesn't
2 meet these requirements because it was not conduct -- it was
3 not for commercial gain or the benefit of NDS or for the
4 benefit of another.

5 The same is true, ladies and gentlemen, of the
6 other claims. If you go through the elements for each one
7 of those, and the Judge will instruct you about those
8 elements, I think you'll find that the evidence does not
9 meet them. In fact, in every instance it depends on a
10 finding that NDS was responsible for not just those
11 postings, but that NDS was responsible for conduct in the
12 United States that amounts to piracy. And there is no
13 evidence of that.

14 Now, before plaintiffs return, I want to ask you a
15 few questions because I'm not gonna get a chance to come
16 back and talk to you again. This is my last chance.

17 As you listen to the plaintiffs and their
18 concluding remarks, there are a few questions I'd like you
19 to ask yourself -- and more importantly ask the plaintiffs.

20 First, why didn't EchoStar find xbr21 or StuntGuy?
21 That information was available to them. NDS tracked them
22 down. Why didn't they find 'em?

23 Second, why didn't EchoStar follow the roads to
24 Barrie? We showed you all the information in their hands
25 that connected piracy to Barrie, Ontario. They didn't find

1 them.

2 Third, what is the response to Nigel Jones? He
3 explained all of this to you. He took the time to show you
4 the differences between the code written by Mr. Mordinson
5 and the code posted on the Internet by xbr21, the Swiss
6 Cheese Productions, the code in the black box, and in every
7 instance it was different. And they had no response at all.

8 Fourth, where are the documents showing that the
9 card swap or any damages at all were the result of the
10 posting? If this had been such a significant event, don't
11 you think there would be some record of it at EchoStar or
12 NagraStar? There's not a single one.

13 And finally, if piracy had so damaged EchoStar,
14 why do they keep setting those record revenues every single
15 year? They want you to award extemporany sums as damages in
16 this case, and yet every single year their revenue has
17 increased enormous amounts.

18 I've tried to focus on the evidence that you've
19 seen, and there is an enormous amount of it. As a result,
20 I've tried to synthesize it for you and explained to you
21 what it really shows and doesn't show.

22 The lie that NDS was responsible for EchoStar
23 piracy went a long way around the world before it got to
24 this courtroom, but it's time for that lie to stop. NDS had
25 nothing to do with EchoStar piracy. NDS engaged in

1 legitimate reverse-engineering. It engaged in legitimate
2 antipiracy activities, and it would be wrong to suggest that
3 NDS had anything to do with the piracy of EchoStar's system.

4 Thank you.

5 THE COURT: Thank you.

6 And Counsel, on your rebuttal, how long would you
7 like the jury to take a recess so you're ready?

8 MR. HAGAN: 20, 25 minutes.

9 THE COURT: About 20 minutes, then. You're
10 admonished not to discuss this matter amongst yourselves nor
11 form or express any opinion concerning the case.

12 Counsel, please remain for just a moment.

13 (Jury recessed.)

14 (Outside the presence of the jury.)

15 THE COURT: Mr. Hagan, why don't you continue to
16 prepare.

17 I want to talk to the remaining Counsel, though,
18 for just a moment about one of the jurors and some
19 information Kristee just conveyed to me.

20 It's only a scheduling problem, so it's of no
21 interest. If the audience wants to take a break, go use the
22 restroom, et cetera, this isn't exciting stuff.

23 Kristee, would you relate for counsel what
24 Mr. Bender told you about, including the contempt.

25 THE CLERK: Mr. Bender indicated that he has

1 another commitment Wednesday, which would be May 15th in the
2 afternoon. He has to be there at 1:00 p.m. And he made
3 this commitment a couple of months ago, and that he would
4 risk contempt of court or being thrown off the jury so he
5 would not miss this commitment, whatever it is that he has.

6 THE COURT: So therefore you're just notified that
7 Mr. Bender has, besides the three-day graduation now and the
8 other half day, apparently another commitment that we
9 weren't even aware of.

10 Now, you better both think this out, because you
11 have another juror who's indicated -- Juror No. 4, I
12 believe -- that she's got a two-week business commitment.

13 You might think of the following: If this jury's
14 going to reach a verdict without putting it over, you know,
15 three days and then another two weeks, which is going to
16 make your case extremely old, you might consider making
17 Mr. Bender an alternate and letting him go so the jury could
18 continue on and start their deliberations literally tomorrow
19 while it's fresh in mind concerning your closing arguments.
20 And if we needed Mr. Bender, at least he would be available
21 next Tuesday if we ran into problems or trouble.

22 If you don't do that -- and it's no concern to
23 me -- I mean, you can bring the jury back in July. That's
24 up to you. But I think your arguments are fresh in mind for
25 both sides, and I think there's a tremendous damage that's

1 going to be done by putting the matter over.

2 But I leave that to each of you, and unless
3 there's a stipulation, we'll continue along this course.

4 Thank you.

5 (Recess held at 2:59 p.m.)

6 (Further proceedings reported by Jane rule in
7 Volume IV.)

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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 8, 2008

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17 CSR NO. 9472, RPR
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A				B
Abe 40:3 49:8	advantage 23:4	54:14	Asia 29:4	69:9
ability 32:1	affect 48:20 56:22	Angeles 2:21	asked 5:8 10:8,10	
able 11:7 24:6,9	afternoon 69:2	announcement	10:13,16 13:5	
25:9,12,13	aggressive 9:7	49:19	14:18 17:7,13	back 4:5 13:21
34:12,25 35:2	ago 26:24 69:3	announces 49:24	18:14,17 19:1,6	38:7,23 41:10
35:18 45:21	agreed 16:14,22	annual 53:24	21:19 26:4 28:2	54:21,25 66:16
56:23	18:2 44:13	answer 10:17	33:9 39:3,12	69:23
above-entitled	63:23	17:14 33:13	52:18	background
71:8	agreement 17:24	42:15 51:7,8	asking 23:18,21	24:22
accept 9:24	47:21 49:17	52:22,23,24,25	23:21,22,25	bad 19:4 22:2
access 14:16 21:8	62:11,13	58:16,21 61:5	24:2	30:18
22:19 29:7,15	agrees 64:3	answers 19:19	ASkyB 47:17,20	badly 34:2
34:22 39:10,11	ahead 28:14	Anthony 7:8 46:7	49:2	Barrie 32:1 42:12
48:3,12,20	aid 40:12	antipathy 10:20	aspect 35:9 54:24	64:22 66:24,25
50:16 51:18	airplane 14:11	antipiracy 11:1	60:11 62:17	based 16:11 52:22
accessed 19:19	airport 10:7	22:14,16,19,23	aspects 22:18	60:9 63:5,5,8
accusing 12:6	al 1:5,8 2:3,11	22:24 24:6,8,17	assist 28:13,17,23	64:5,11
ACE 29:19 33:17	12:6,24,24	25:17 26:19	29:1	bases 60:3
acknowledged	27:25	27:19,21 28:9	assisting 13:16	Bates 18:2
17:5 28:20	Alan 10:6 18:4	28:10,14,17	associated 52:17	Bay 7:1 32:1
acknowledges	alias 23:12 37:10	30:22 68:2	59:15 65:24	64:23
24:18 55:3	aliasing 55:16,18	anybody 7:7 8:14	ASSOCIATES	BBCO 29:15
acquire 40:8	allegation 14:14	13:6,8 14:9	2:4	bearing 18:2
49:25	14:22,24 15:1	35:23	assume 52:5	beginning 8:3
acquisition 40:13	38:24 39:20	apart 35:14	asylum 6:16	13:14 32:23
49:1,11 50:2	59:18	APDU_index	attach 5:16	behalf 4:10
Act 51:11 52:21	allegations 12:9	56:6	attack 21:1 31:21	believe 27:2 40:17
65:19	12:15 38:18	apparent 5:6	42:10,13 44:17	52:23 65:15
action 60:21	40:14 49:16	apparently 9:7	attacking 34:8,8	69:12
active 29:8	allege 11:25	11:12 15:6	attacks 7:2	belonged 15:6
activities 22:14	alleged 44:20	16:25 69:8	attempts 49:20	Bender 68:24,25
30:20 68:2	64:17	APPEARANCES	attorneys 2:7,14	69:7,17,20
activity 27:16	alleging 11:15,16	2:1	2:19 12:20	benefit 66:3,4
35:8	allowed 23:13	Apple 32:16	attributes 42:14	best 51:1
actual 12:5 45:18	allows 23:7	applications	audience 68:21	bet 28:19
Adams 23:18	alternate 69:17	33:10	August 37:2,9,13	better 34:6,10
additional 44:10	Amendment 8:2,7	apply 62:3,7,13	autoroam 58:5	69:10
administrator 6:2	amount 9:19	appropriate 53:1	available 6:5	big 10:14,19
6:2,7	60:17 67:19	approve 32:18	27:10 31:18	15:10 21:25
admission 16:14	amounts 66:12	April 36:22 49:24	47:4,5 58:6,7	31:18 35:20
admit 17:1 50:7	67:17	areas 35:25	66:21 69:20	51:22
admitted 8:20 9:3	Ana 1:16,23 4:1	argument 3:3 4:9	Avenue 2:20	biggest 13:20 40:5
10:9 12:14,14	analysis 20:20	4:12 41:14	Avi 32:9 42:3	40:6
13:3 38:9	45:13 47:3	arguments 69:19	award 59:22 60:9	billion 40:10,11
admonished	analyze 29:22	69:24	60:17 62:4 63:7	Billy 6:23 9:8
40:24 68:10	45:21	arises 49:12	64:5,11 67:15	64:20,22
ADSR 40:4	analyzed 29:25	Arizona 42:11	awarded 60:13	binders 57:9
advance 32:22	38:3 45:17	arrests 14:7	63:25	binding 17:24
	Anderson 31:19	arrived 34:1	awarding 59:23	bit 8:15 11:13
	Andre 7:22 12:8	article 31:18,19	aware 55:8 58:16	16:2 51:8

black 45:18,25 46:2,10,15 55:22,23 67:6	calls 32:11	13:19 15:17	Cheese 46:22,24 67:6	close 25:1 38:5 39:25
blackmail 9:18,22	Canada 10:7 52:2 52:9 64:15,18	18:12 19:7	chip 29:19 33:18 33:23 55:15	closed 38:2 56:10 56:14 57:1,11 57:14 58:3
blackout 20:8	Canal 5:8,9,10,19 22:8 38:19,20	22:13 24:11	56:1	closer 39:25
blind 18:22	38:23 39:14,18	27:14 30:9	chips 34:3,6 35:4 35:5 49:6	closing 3:3 4:9,12 41:14 69:19
block 45:18	39:24 40:6,7,9	38:18,19 40:18	chose 61:13	code 5:10,12,13 5:19,20 6:19 9:15 39:14,18 41:23 42:6,17 42:20,21,24 43:1,2,4,5,7,7 43:10,11,12,13 43:16,20,21 44:23,24 45:18 45:19,21,22,22 45:25,25 46:1,1 46:3,3,4,8,9,15 46:15,18,20,21 46:24 48:14 55:9 56:4,5,19 57:17 58:6 67:4 67:5,6 71:6
blocked 56:16	49:16,20	41:1 45:17 48:2	Chris 4:21 7:13 7:18 8:22,23 10:23,24 11:9 11:19 12:13,14 12:16 14:13,22 16:9,18,19 21:15 23:4,8,9 24:16,18,24 25:5,11,13,16 25:20,23 26:2,5 26:8,11,17,23 27:1,7,12,25 30:12 32:3 35:22 36:5,8,9 36:13,16 37:1,2 37:7,16 38:9,13 39:18 40:16	closer 39:25
blocker 56:19 57:1 58:2,4,6	capable 31:23	51:4 59:3 63:22 64:16 65:15 67:16 68:11 69:16	CHRISTINE 2:5	code 46:13
blockers 56:21	card 9:4,5 17:4,9 20:21 21:1,1,2 22:21 26:6,7,9 29:21,24,24 30:13,16 32:7 34:17,21 35:3 35:13 36:6,8,9 36:10 38:3,20 38:23 41:21,22 41:23 42:10,13 43:22,22 50:6 50:12 53:6,10 54:2,13 56:2,2,3 56:15 57:22,24 58:1,1,3,5,8,8 58:10,11,13,19 58:24 59:2,4,12 59:13 60:21 61:3 62:1,2,5 64:10 66:1 67:9	cases 12:2	Christmas 30:16	code-named 10:22
blocks 34:22	cards 11:7,21,24 12:3 17:11,12 17:12 20:13,17 20:20 26:13,14 27:25 29:21 35:1,12,14,15 35:17,19,25 44:18 50:7 53:15,20,21,22 56:16,16,21,22 57:1,24 58:2,4,6 58:7 59:22,25 61:1,1,12,13,16 61:19,22 62:8 62:10,15 63:12 63:18,19 64:1	category 47:19	Christophe 46:14	collected 29:23
boss 26:16 37:11	Carter 1:3 17:22 31:10 63:3,24	caught 9:5	CIA 6:19	color 44:1
bought 17:11 38:7	case 5:11 11:19 11:25 12:5,15	cause 8:16 20:23	circle 4:14 39:23 40:16	combat 29:9
box 29:19 36:3,8 45:18,18,25 46:2,10,15 54:3 55:22,23 67:6		caused 50:22 53:3 53:7,8 55:6,8 57:22 59:14 60:19	circumvent 21:2 51:21	come 6:10 12:23 12:24 17:14 18:11 27:10 33:24 35:19 41:2,24 51:12 66:15
boxes 7:12 16:1,1 35:21,25 43:2,6		Center 2:14 33:21	circumvented 51:24	comes 10:2 16:24 18:20
break 29:18 40:23 68:21		central 1:2 12:2	circumvention 51:24	comfortable 39:1
break-up 49:22		cents 59:24	cited 61:23	coming 7:8 32:22
brief 43:16 57:19		CEO 30:14 33:24 54:6	citing 50:2	command 54:5
bring 5:23 7:2 21:17 26:1 27:11 29:4 30:7 69:23		CERTIFICATE 71:3	claim 48:2 65:1,2 65:3,11,14,18 65:19	comment 56:4
broke 4:13 41:16		certify 71:5	claimed 18:17	commercial 9:1 10:24 54:23,25 66:3
brought 38:7		cetera 35:25 68:22	claiming 55:6	commitment 69:1 69:3,5,8,12
Bruce 7:22 12:7		CHAD 2:5	claims 51:4,7,10 59:20 66:6	common 22:19
bucks 60:1		chair 7:11,14,21	clear 21:20 25:4,6 54:24 55:5 63:9 63:11,13	communicated
budget 24:2		challenges 20:19	cleared 56:6	
buffer 42:9,12 44:5,17 55:12 55:17,23 56:6 56:10 57:16,21 60:20,25 61:4,9		chance 66:15,16	CLERK 68:25	
built 43:11		changed 28:19 59:8		
burden 53:2,2		characteristic 44:17		
business 50:24 51:1 69:12		charges 14:8		
<hr/> C <hr/>		Charles 5:22		
cable 29:8		Charlie 28:16		
California 1:2,16 1:23 2:15,21 4:1 14:12		chart 43:6 46:25		
call 28:23		chase 21:17		
called 34:22		chased 8:4		
		check 46:10,11 55:10		
		checked 39:7,8,9 39:10		

25:2 Communications 65:19 community 21:24 21:24 company 23:2,6,8 23:12,13 24:14 33:24 39:8 40:11 company's 40:5 compare 32:12 54:17 compared 46:24 competitive 33:18 competitor 14:21 20:3 30:3 49:5 competitors 23:22 28:13 29:20 30:4 33:11 competitor's 22:10 29:15 complain 30:11 complaining 21:5 29:13 48:1 53:6 complete 59:12 60:7 completed 53:16 completely 45:14 56:9 complicated 65:3 component 65:8 compromised 50:8 computer 19:8 27:12 computers 39:11 concern 14:24 69:22 concerned 14:14 14:17 23:10 24:1 26:15 51:6 51:6 concerning 41:1 68:11 69:19 concluding 66:18 conclusions 44:11 45:11,12,13,16 47:6,12 conclusive 36:16	concocted 7:24 conditional 14:16 21:7 22:19 29:7 29:15 48:3,12 48:20 50:15 conduct 14:23 22:2 25:7,17,18 30:21,22 38:18 40:8 53:4 65:12 65:16 66:2,11 Conference 71:10 confidentiality 33:2 confirmed 55:22 confirms 37:18 38:13 conformance 71:9 confronted 9:14 15:7 conjecture 63:6 connected 36:3,3 36:10 40:20 59:17 65:4 66:25 connection 7:17 7:18 14:5 41:17 consider 8:18 60:12 69:16 considers 33:6 consistent 58:9 65:15 consistently 56:14 constitutional 8:12 consultant 6:22 17:17 consumer 54:3 contacted 32:16 contain 19:23 contained 44:15 57:9 contains 20:1,6 20:11 contempt 68:24 69:4 continue 24:20 41:13 68:15 69:18 70:3 continued 11:2	56:20 continuing 4:9 contract 47:18 48:9,13 49:7 contrary 14:2 28:11 30:19 57:8 control 6:5 11:24 20:7,7 39:10 56:23 controlled 24:21 controller 54:11 controlling 59:6 controls 51:18 54:2 Conus 57:9 64:9 convenient 5:19 5:20 conversation 58:21 conveyed 68:19 convicted 8:4 14:9 copies 18:3 19:10 copy 13:9 17:2 Copyright 51:11 52:21 65:2 copyrighted 51:18 Corp 1:5 47:20 48:24 49:4,6,24 50:2 CORPORATI... 2:3 correct 19:13 33:13 61:4 71:7 corrected 44:8 56:3,5 60:25 cost 54:3 59:24 60:7 61:21,21 62:8,9 costs 60:3 cost-free 62:15 counsel 4:6,8 17:21 20:19 41:4,11,12 47:13 62:20 68:6,12,17,23 countermeasures 34:19	country 24:25 couple 20:11 22:3 37:16 38:12 49:15 63:21 69:3 course 26:7 29:11 36:25 52:21 70:3 court 1:1,21,22 4:5 40:24 41:10 62:20 63:2 68:5 68:9,15 69:4,6 71:15 courtesy 4:8 32:21 41:12 courtroom 67:24 covering 20:25 crashes 43:22 CRC 46:10 create 22:22 55:24 created 11:23 27:19,19 28:9 credence 6:17 credibility 6:17 credit 54:2 criminal 26:17 cross-reference 25:13 CSR 1:21 71:16 Cumberland 14:4 14:4 curiosity 17:8,15 curious 17:8 customer 20:12 40:6 customers 20:16	67:15 Dan 33:15 danger 21:21 dangerous 24:4,7 26:1,11 DARIN 2:13 date 37:6 61:20 71:12 Dave 7:21 12:7,23 David 1:3 2:6,13 2:24 37:3,12,12 37:16,21 38:12 42:6 44:18 46:5 46:18 54:7 Dawson 12:24 day 1:8 4:2 69:8 days 15:11 57:13 69:15 deal 15:10 47:20 48:7 51:1 death 9:9 Debbie 1:21 71:15 December 6:8 36:18,25 37:19 41:19,22 48:3 48:14 53:17,22 56:25 58:15,17 58:20,25 decide 40:19 52:22 65:5,9,11 decided 4:21 13:14 49:5 deciding 65:4 decision 15:13 49:7 53:20 59:4 65:14 decisions 49:4 decrypt 5:16,17 dedicated 22:23 deeply 8:21 defect 62:1 defects 58:11 DEFENDANT 2:11 defendants 1:9 51:20 65:5 Defense 3:3 4:12 deficient 34:2 DeHaan 33:15 deleted 60:4
--	---	--	--	---

23:20 69:18 delivered 10:6 61:19 demand 53:10,18 54:15 55:1 demanded 61:23 demonstrate 47:11 demonstrated 45:24 denied 29:16 33:20,21,22 Dennis 6:24 deny 38:22 49:18 depends 66:9 deposition 13:14 15:11,19,21 19:7 describe 20:4 33:1 56:14 described 31:17 56:15 description 27:24 design 33:18 34:23 designed 17:4 34:20 destroy 48:5 destroyed 18:25 48:2 54:23 details 57:12 deter 48:12 determine 52:25 determined 14:25 develop 33:10 34:3 developed 17:4 33:13 46:5 development 34:5 device 27:18,24 28:7,9 55:24 65:8 devices 8:9 11:6 11:11 12:10,13 12:17 16:9,19 30:2,3,11 35:12 64:12,22 difference 30:6 43:14,17,23,24 44:5 46:4	differences 42:19 43:9 44:11,24 45:15,22 46:7 67:4 different 11:10 34:23 42:25 43:3,4,7,8 44:9 44:12,14 46:18 46:21 47:2 51:4 51:9 63:19 67:7 Digital 51:11 52:21 65:2 dinner 40:3 Dionisi 27:23 28:2 direct 61:21 62:7 62:9 DirecTV 8:4,5,13 8:21,22 11:6 14:15,18,25 15:23 16:5,12 17:3,5 20:12,24 25:21,24 26:3,6 26:9,13 30:13 30:16 39:24 40:13 47:18 48:7,9,13 49:7,8 49:12,17,25 50:2 66:1 DirecTV's 9:4 11:5 14:16 direct-dial 28:18 28:21 disclose 32:17,18 32:19,20 53:23 disclosure 32:11 32:23 33:4 55:2 discuss 40:24 68:10 discussed 53:15 DISH 6:24 64:23 dispute 31:14 38:22 47:23,25 51:19,22 distribution 7:23 8:1 12:2,5,6,17 28:1 52:8,12 64:17 District 1:1,2,22 divided 34:21 DNASP-II 58:1	DOC 1:7 document 20:1,10 20:19 21:10,12 21:13,15,22 22:4 23:24 27:5 27:7,11 58:10 58:23 documents 10:6 11:21 17:1,2,3,6 17:9,17,19 18:2 18:3,6,8,11,13 18:15,25 19:2 19:18,23,25 22:2,5,11,11 27:9 56:13 63:8 67:8 doing 6:3 10:25 11:1 20:21 21:14 23:7 25:15 30:12,24 39:1 DOJ 49:18 dollars 40:10,12 50:22 dongle 11:23 door 62:24 doubt 32:10 38:13 38:21 41:19,21 Dov 2:24 19:24,25 20:9 30:15 49:8 50:15,20,20 download 44:22 Dr 19:25 20:9 23:5 32:9,12,15 33:5,5,24 40:2,5 40:6 42:3 44:2,2 44:13,14,16,19 45:2,3,7 47:5 48:9 49:3,8,8 50:15 56:9 draft 60:5 dramatic 46:2 draw 38:17 driven 54:20,25 drives 26:23 27:1 dr7 6:2,7 24:10,14 41:20 due 64:1 Dugan 54:20 dumps 29:23	D17V3 1:25 <hr/> E <hr/> E 3:1 eager 8:5 earlier 27:18 31:24 39:23 47:13 64:8 early 14:3 36:24 55:14,20 56:14 56:21 60:5 easel 44:4 EBERHART 2:13 EchoStar 1:5,25 2:3 4:20 5:12,13 5:20 8:9,10 9:12 13:16 14:20 15:22 20:21 22:7 26:7,10,14 26:18 27:8 30:14,15,25 33:23 35:3 38:7 38:21 39:24 40:10,12 41:21 47:16 48:13,25 49:16,20,21,25 50:6 51:16 53:14,21 54:13 54:20 61:12,16 61:23 63:13 64:14 65:20,24 66:20,23 67:11 67:13,22,25 EchoStar's 48:5 48:12 49:11 50:18 51:21 53:24 68:3 ECM 37:20,24 ECMs 29:23 38:16 59:5 ECM's 20:8 effect 5:6 37:20 61:7,8 effective 37:25 56:9 59:5 effectively 29:1 51:18 effectiveness 24:17	effects 10:1 effort 26:19 efforts 33:1,10 34:13,18 60:15 60:18 either 7:3,9,14 15:25 35:23 45:23 electron 6:25 electronic 11:11 12:10,13,17 16:9,19 element 52:3 65:13 elements 66:6,8 eliminated 35:3 em 6:9 13:24 66:22 Embarcadero 2:14 emphasizing 31:8 employee 15:16 40:4 employees 14:17 39:8 48:24 employing 30:6 encrypted 5:15,15 encryption 13:1 enforcement 29:1 engage 28:4 engaged 22:2,14 26:18,19 32:13 33:3,4,8,10,22 33:22 38:19 67:25 68:1 engages 29:14 engineering 11:1 20:24 21:6 22:14 31:4,5,7 31:11,13,15 32:9 33:8,11,22 33:23 34:13,18 38:20 54:8 engineers 34:6,7 enormous 36:2 67:17,19 ensure 56:6 entering 48:13 enterprise 22:17 entire 43:6 64:14
---	---	---	--	---

equal 61:21	34:15 36:11,15	33:16,24 34:25	37:17 38:16	44:12 51:10
equally 27:9	39:13,17,19,23	40:5,7 47:7,10	42:1 43:8 44:7,8	52:18 54:12
equipment 7:1	40:14,15,17	48:25 49:23	44:21,25 45:5	56:24 59:3,21
35:24	42:16 52:20,23	52:10	53:7 54:14 56:9	62:1 63:22
equivocate 10:9	53:5 57:15 59:1	explained 12:25	57:2,7,23 58:11	65:11 66:20
erase 19:9,12	59:16 62:14	20:1 26:11 39:2	59:1 61:22 66:9	fix 53:15
erased 19:7,9	63:5 64:16	42:4,14 44:3,6	failed 47:17,22,22	fixed 56:7,8 57:17
Ereiser 5:1 8:16	65:15,23 66:8	44:10,18,21	fair 62:25	57:18
8:16,20 9:2,2,7	66:13 67:18	45:20 46:17,20	fall 47:19 65:25	floor 39:9
9:9,10,13,17	exactly 13:12	46:22 47:9 49:3	false 15:1 26:7	Florida 42:12
10:1,4,5,8,19,23	20:23 21:8	56:8,10 57:13	far 13:20 22:12	focus 12:19,21
11:3,6,9,16 12:1	26:19 38:11,14	67:3,20	28:14 33:5	23:16 24:11
12:4,11,11,12	46:14 47:3	explains 14:18,19	fault 61:14	54:22 67:18
12:18,23 13:2,3	53:11 55:8 59:7	14:20 38:11	favor 15:18	focused 24:8 38:1
13:6,18 16:4,8,8	60:5	explanation 15:8	favorite 10:10	follow 66:23
16:13,13,17,22	example 22:4	50:4,5	February 16:11	following 19:1
17:18 18:4,7,24	24:16 27:15	exploited 55:23	47:21 56:15	69:13
19:20 21:16,22	42:24 60:24	57:16,21	57:18	fond 20:5
26:1 32:5 55:22	examples 25:19	exposing 60:20	Federal 1:21	footprint 64:14
Ereiser's 8:18	exception 50:10	express 40:25	fee 49:22	foregoing 71:6
11:12 16:3	50:10 57:11	68:11	feelings 10:8	forever 32:14
Ergan 50:11	exceptions 64:19	extemporary	field 50:8	50:12
Ergen 28:16,18	exchanging 37:8	67:15	Fifth 8:2,7,10	forgeries 12:25
28:23,24 30:14	excited 5:3	extend 62:21,22	fight 23:25 24:2	form 40:25 51:8
49:22 50:11	exciting 68:22	extension 48:10	37:17,18,19,24	52:19 65:1
54:6 59:2	executives 49:6	extra 13:15 62:23	38:15	68:11
Ergen's 28:21	exhibit 20:1,4,5	extracted 46:23	file 13:3,6,8	format 71:9
EROM 32:2	20:10,10,22	extreme 33:1	filed 4:23 14:7	forward 15:1
errors 44:15	21:9,11 23:17	extremely 29:8	50:1 53:24	24:24
ESC0129863 18:3	23:17,19 26:4	45:17 69:16	files 13:2 45:20	fought 38:5,5,6
ESC0155899 18:3	35:16 36:7,24	e-mail 5:3,9,13,15	46:23	found 13:23 14:5
essentially 6:19	37:7,10 53:11	13:9 24:5 25:3	filing 50:4	15:2,4 27:12
8:24 22:15	54:19 56:15,18	26:5 35:16,18	filings 53:24 55:2	29:16 35:5
61:25	56:25 57:2,3,4	35:21 36:5,6	final 60:4	Fountainview 2:7
et 1:5,8 2:3,11	57:25 61:17	37:13 63:10	finally 10:16 12:9	four 12:20 39:11
35:25 68:22	63:10 64:9	e-mails 12:1,20	25:13 29:6 33:7	39:12 42:5,5,9
evaluate 20:16	Exhibits 12:21	12:20,22 19:8	61:15 64:11	42:14,15 44:16
event 67:10	existence 33:20	29:22,23 30:1	67:13	Fourth 67:8
events 36:21 48:1	expect 51:9	37:5,8	find 6:9 23:20	four-and-a-half...
48:2	experiment 30:12	E3M 58:5,7	39:5,13 51:16	60:1
eventually 50:8,9	65:25	E3Ms 63:12	53:6 60:12,16	Francisco 2:15
everybody 9:20	expert 32:8,9		65:19,21 66:8	free 8:24
44:3 50:9	41:25 42:4	F	66:20,22,25	freeware 58:5,7
evidence 4:14,14	57:12	face 25:3,3	finding 66:10	free-to-air 59:2
4:16 8:17 9:16	experts 56:12	fact 7:9 8:21	fingerprint 15:5,6	59:16 64:1
13:25 14:1	explain 6:23 9:8	12:24 14:1	46:9,13	fresh 69:19,24
16:24 17:24	9:10 18:7 23:5	15:10 21:14	fire 15:18	front 12:22 44:3
19:7 25:23 26:2	23:10 24:21	22:15 24:5	fired 15:9	Frost 8:1,2,2
26:8 28:11,12	27:20 28:15	26:22 28:20	first 22:20,22	52:11
30:2,5,10 33:7	29:3,6 31:16	32:5 33:23 35:1	26:6 31:9 42:3	FTA 59:8

fulfilled 36:19	40:23	hands 9:12,15	37:2,3 38:24	ICG 4:15
functional 43:23	gotten 7:12 10:24	20:3 21:20,22	39:19 40:5,6	identical 46:12
further 55:22	10:25 17:16	66:24	41:25 42:3,18	identified 27:5
70:6	graduation 69:7	hanky-panky	43:14,17 48:8,8	34:16 43:10,15
future 50:25	grand 13:16	56:7	49:3,22 50:7,14	45:21 57:11
<hr/>	grant 62:22	happen 21:19	50:19 52:10	64:18
G	graphic 42:25	happened 16:20	53:8 61:3,8,15	identifies 43:1,2,4
gain 66:3	43:25	39:22 55:7	64:2 65:23	43:5
Gale 1:21 71:15	graphics 44:14	58:19	held 41:7 70:5	identify 34:24
Gee 6:15,20 10:6	gray 43:1,4,6	hard 26:23 27:1	71:8	37:6 46:6
17:1,4,9,11 18:4	great 10:20 54:23	hardware 61:6,6	help 37:6	identities 23:1
18:10,14 52:10	green 19:4	Harman 6:14,15	helpful 18:12	identity 23:8
52:12	greet 50:24	6:16	helping 16:15	Igor 17:3
gentleman's	group 1:8 2:11	HarperCollins	helps 27:13	III 1:8 4:2
62:13	6:24 32:1,2	23:5,15	Henri 57:5	illegal 25:7 30:21
gentlemen 15:12	64:23	HARTSON 2:18	Hi 50:20 51:2	31:12,14
50:21 66:5	grudge 13:20	Hasak 9:16,18,21	hidden 16:9,18	illustrate 47:11
George 37:10	grudges 4:19	14:10 15:8,13	highly 17:5 44:15	imagine 27:4
getting 5:11 7:13	guarding 39:8	21:11,19,23	60:10	immediately
10:2 23:11	guess 10:14 60:6	23:9 24:20 25:5	hire 13:11 22:20	43:15 57:14
35:16 41:20	60:7,7,8,8,8	29:3,6 35:23	hired 13:12 23:13	impersonate 9:11
ghost 61:7,8	64:4,5,6	38:25	24:17 25:21,24	implemented
Gilles 9:17	guesses 60:3,9	hate 10:17	26:20 39:1	34:19
give 25:19 27:15	64:3,4	hated 10:11	hiring 34:6	implicated 27:7
28:25 63:3	guessing 63:11	head 28:1	history 8:12,13,19	important 8:17
given 8:12 24:22	guesstimate 64:13	Headend 20:18	16:3	8:19 9:23 15:16
gives 17:23	guesswork 63:6,8	21:5 36:13,14	hobbyist 8:25	18:19 20:10,14
glitching 34:20	Guggenheim 10:7	36:17,17,22,23	54:21,25 55:4	33:25 42:19
go 9:11 13:21	18:4,10,14	38:12 41:17	HOGAN 2:18	43:3 44:12
36:9 42:22	28:24,25	42:19 51:25	hold 28:23	45:17 46:9
64:25 66:6	guy 13:11,13	headers 13:9	hole 38:2,5 55:5,8	importantly
68:21 69:17	guys 38:1	hear 7:5,21,24,25	55:10 56:14	19:22 36:10
goal 32:25	<hr/>	16:19 62:9	57:1,6,10,13,16	66:19
goes 15:18 43:20	H	heard 5:2 6:1,15	58:2,3	imported 65:6
going 5:1,21 21:8	hack 9:12 22:9	6:23 9:8,10,16	Honor 4:11 40:22	improve 32:14
22:6 23:20	23:22 31:24	10:21 11:4 14:4	41:15 63:1	improved 34:5,18
24:24 31:10,11	32:7 38:8 41:24	14:10 16:17	HONORABLE	improvements
31:12 32:17,18	hacked 9:4 21:8	17:1,11 18:7,12	1:3	34:12
32:19,20 36:16	64:8,10	19:24 20:4,9,14	hopes 34:9	inappropriate
39:22 50:8,9	hacking 9:5 33:11	21:10 23:5,9	hour 41:3,5	60:10
52:18 62:22,24	50:17	24:12,13,20	house 38:8	incidents 55:7
63:3 69:14,15	Hagan 2:5 68:8	25:10 26:24	Houston 2:8	included 27:4
70:1	68:15	27:6,20,23	HU 29:24	60:6 62:15
gonna 15:16	Haifa 31:5,17	28:12,15,22	hundred 54:22	64:14
17:18 20:22	33:21 39:4,6	29:3,6,10,13,20	63:12 64:13	including 8:8 25:7
30:24,25 35:13	40:21 42:11,17	30:5,10,13 31:4	hundreds 24:9	68:24
35:14 42:22	46:5,21,23	31:5,16 32:3,5,8	31:23 34:6	incoming 55:11
49:18,25 59:22	half 19:6 40:10,12	32:25 33:7,15	50:22	inconceivable
66:15	69:8	33:24 34:24	<hr/>	45:1
good 15:8 19:3,4	hand 48:17	35:23 36:23	I	inconsistent 13:1

increase 23:23	interest 47:17	Jackson 50:14,19	Kaehlin 9:17	large 57:9
increased 24:2	68:21	Jane 70:6	Kahn 48:8	Larry 6:14,21,22
59:24 67:17	interested 18:9	January 54:19,21	keep 23:7 32:14	6:22
index 44:23	interesting 8:17	55:3 56:4 57:18	51:24 67:14	latch 35:1
indicated 68:25	24:10 40:8	57:25 64:10	KENNETH 2:19	late 47:25
69:11	internal 18:8,13	Jerry 18:4	key 5:15	launched 16:6
indication 28:2	20:23 21:12	Jerusalem 25:10	keyword 27:2	law 2:7,14,19 29:1
indicative 42:9	22:11 56:13	job 21:6	keywords 27:3	51:14
indicted 9:2 16:4	Internet 7:16	Joe 6:23 9:8 57:9	kill 17:20	lawsuit 4:23 5:8
indictments 14:8	13:16 25:11	64:20,22	kind 9:21 18:23	18:19 49:21
industry 22:21	26:13 36:15	John 10:17 14:13	20:20,23 21:4,6	50:1,3,4
inference 38:17	39:15 41:18	25:1,1 26:5,16	27:8 28:4 44:1	lawyer 19:10,13
inferior 44:19	42:20 43:16	28:15 37:11	54:16	19:15,20
infinite 43:20	46:3,8 58:14	Johnny 10:22	kinds 20:25	lawyers 14:1
informant 17:18	67:5	11:16,19,22	KLEIN 2:19	lead 14:9
informants 21:13	interrogate 14:12	12:4 16:6,10,12	knew 6:25 7:1	learned 49:17
21:16 22:25	intervene 49:20	25:25	18:7,15 25:14	leave 70:2
information 4:20	intolerable 59:10	join 22:22 40:4	46:12 53:11,21	left 45:8 55:10
6:9,11 7:16 8:17	59:11	Jones 26:24 27:6	53:23 54:9 55:5	61:25 65:14
13:19 15:2,3,4,7	introduce 56:1	31:16 32:4	55:16,19,23	legal 31:9,11,15
15:12,13 18:18	introduced 61:2,5	42:14,18,23	56:21 57:12	legislation 22:24
18:25 19:18,24	invasive 7:2 31:24	43:9,14,17,25	60:24 61:24	legitimate 22:14
20:2,2,6,12 21:4	invested 40:10,11	44:6,10,21 45:3	know 5:4 14:3	25:17 27:16
21:15 23:11	investigated	45:4,6,7,10,12	15:3,23,25	28:7 30:20,23
25:14 26:25	14:19	45:14,16,17,19	18:21,22 23:13	31:1 33:6 35:7
32:3,16,17,19	investigation	45:24 46:6,16	25:12 32:22	68:1,1
32:21,24 33:3	14:10,11 38:25	46:20,22 47:9	35:3,4 45:19	LEN 56:6
35:9 66:21,24	39:1,2,4,13	56:4,8 57:8,11	55:18,19 64:7	length 5:1 37:22
68:19	investigators	67:2	69:14	37:22
initially 11:1	22:21	Judge 1:3 17:22	knows 5:21 50:10	lengths 43:7
injure 22:9	invoked 8:14	31:10 63:3,24	Kommerling	letter 54:10,12
innovative 24:6	invokes 43:10	66:7	39:20 40:2,3	55:1
inside 11:11 12:10	involve 11:18,20	judgment 16:7	49:15	letting 32:22
12:13,17 15:5	involved 8:20,21	Judicial 71:10	Kristee 68:19,23	69:17
16:9,19	8:23 9:1 10:25	July 16:14 69:23	Kudelski 53:14	let's 8:15 11:14
instance 66:9 67:7	14:15,17,22,25	June 16:4 49:25	54:14 57:5	13:21 16:3
instances 4:22	26:3,14 38:24	57:3,4 65:12,17	61:18,18,20	36:21 39:21
12:9 30:23	39:14,18	65:22	62:12	54:17 57:23
instruct 66:7	involvement 8:6	juror 69:11,11	Kummer 50:7	level 48:22 54:21
instructed 29:22	9:3 22:7,8,9	jurors 68:18	54:7 59:7 64:2	55:4 59:9,10,11
63:24	involving 16:5	jury 1:15 4:4 41:9		lie 67:22,24
instruction 17:23	53:15	65:9 68:7,13,14	L	life 7:10 24:7
35:1 63:4	iPhone 32:15	69:4,17,23	L 2:18	light 30:15
instructs 31:10	Irreto 29:4	jury's 4:6 41:11	lab 31:5 32:1	likewise 8:19
integrity 9:24	issue 26:24 40:18	69:13	labs 31:23 32:4,6	39:17
intelligent 37:25	40:18	justice 21:18 29:5	lack 41:17	limited 11:21
intended 32:13	issued 14:8	30:8	ladies 15:11 50:21	line 43:12
intentionally	IV 70:7	J.J 10:6	66:5	lines 43:13 57:17
55:10			language 57:2	list 5:22 6:14,21
intercepted 14:6	J	K	60:4	7:5 17:22 27:4

listen 66:17	65:6	Mexico 64:14	34:16 37:3,7,13	22:2,12,13,18
literally 34:6	manufacturer	Michael 37:10	37:16,21 38:3,9	23:3 24:1,12,15
69:18	55:15	microscope 7:1	38:12 42:7	25:21,24 26:3
little 8:15 11:13	manufacturing	Mike 54:20	43:12,15,20	26:15,19 28:12
16:2 47:1 51:8	61:22 62:8,10	military 8:24	46:5 52:1 67:4	29:3,8,13,22,24
lives 52:11	March 56:18,22	Millennium 51:11	Mordinson's	30:2,19,24 31:2
load 43:21	Marco 7:6 41:20	52:21 65:2	42:17 43:21	31:14 32:7,13
lobby 22:23	marginal 61:21	million 59:24	44:18,24 45:22	32:13 33:20
local 35:25	62:8,9	millions 50:22	46:1,18	34:1,8,9 35:4,5
long 4:21 23:17	Mark 50:14,19	million-dollar	morning 23:16	35:9 38:19,22
26:24 27:4 38:6	market 33:18	16:7 49:22	27:18 34:14	38:24 39:14
51:25 52:1	material 47:4,5	mind 51:24 69:19	47:13 51:3	40:3,8,15 41:25
61:11 67:23	54:3	69:24	Moskowitz 2:24	42:6 47:15,23
68:6	materials 9:18	minutes 4:24 5:2	motive 47:16 48:4	48:11,25 49:8
long-time 15:16	math 18:5	62:18,21,23	50:4	50:15,17 51:6
look 6:3 11:14	matter 13:25 19:5	68:8,9	Motorola 29:19	51:10 52:17,20
16:3 23:19,24	37:18 40:25	misconduct 40:14	33:17,19	53:7 59:15,17
26:4 36:7,21	42:10 68:10	40:15	moved 44:6	63:22 64:21
44:8 47:19	70:1 71:8	misleading 44:15	multimillion-do...	65:4,9,16,24
56:13 57:23	Max 29:5	missed 12:21	29:18 33:17	66:3,10,11,21
63:15	maximum 44:22	mistake 44:7	multiple 64:4,7	67:22,24,25
looked 27:3	mean 19:13 26:18	mitigate 60:14,19	multiprong 34:4	68:3
loop 43:20	69:23	mitigation 60:13	MYERS 2:12	NDS's 20:2 22:16
loopholes 39:5	means 6:3	60:16,18 61:14		24:5,17 25:10
Los 2:21	measure 51:17,21	mixing 34:22	N	30:4 31:6 32:25
lost 62:19 63:7,24	measures 54:1	modest 48:18	N 3:1	34:13,17 35:7
63:25 64:1,11	meet 14:12 66:2,9	modified 17:12	Nagra 29:7,9,14	38:18 41:17
lot 6:17,17 8:16	meeting 30:14	moment 5:24	33:16 61:21	53:3 57:12
8:17 9:22 17:8	37:8 65:10	12:19 31:3	NagraCard 33:9	61:14
27:24 31:4,5,7	meets 65:8	32:12 39:21	NagraStar 4:20	necessary 7:2
lots 61:15	Melca 39:4	52:7 68:12,18	5:12 6:22 10:3	54:1 58:14
lunch 4:13	memory 34:21	money 5:6 7:8 8:9	13:12,17 16:15	need 8:18 12:19
	55:12,16,18	8:25 9:19 10:2	16:23 19:15,21	54:22 62:18,25
M	Menard 12:6,24	12:10,11,13,16	30:25 53:14	needed 17:20
M 2:5	12:25 24:12	13:24 15:23	59:21,23,25	35:24 62:16
Mad 29:4	27:25 28:3	16:9,18 17:8	67:12	69:20
mailbox 9:12	mentioned 17:16	23:19,21,22,22	NagraStar's	nefarious 22:17
13:22,24,25	21:23 35:21	23:25 50:12	57:24	negotiations 48:9
14:3,5	39:10 56:23	59:21	NagraVision 33:9	50:16
mailboxes 15:24	mere 60:3	monitor 25:9	named 17:3 29:4	neither 64:20
main 15:6 22:4	merge 49:17	monitors 25:11	NDS 1:8 2:11 4:10	net 54:16
40:18	merger 47:17	Montana 32:7	4:19 7:18 8:4,13	network 7:23 8:1
maintain 33:2	49:1	month 13:15	9:5,6,18,18 10:8	12:5,17 28:1
making 8:25	Merv 15:6	16:15,22 49:19	10:11,14,20,20	52:8,12 64:17
13:15 25:11	message 23:17	months 13:14	10:24 13:20,24	never 14:7,7,8,8
34:9 69:16	55:11 56:24	16:6,13 40:9	14:16 15:4 16:4	18:17 19:21,22
Maldonado 7:8	messages 20:8	49:15 53:16	16:5,5,6,12 17:4	32:25 33:13,20
46:7 64:19,21	met 50:14 55:14	60:22,22 61:20	18:8,13 20:3,6	33:21,22 39:17
man 9:23	methodology	69:3	20:12,15,19,23	45:9 57:7,19
manufactured	44:19	Mordinson 33:1	20:24 21:17	new 52:11,13 56:1

56:2 61:5 News 47:20 48:24 49:4,6,24 50:2 nice 41:3,4 Nicolas 33:8 46:14 55:14,18 61:3 Nigel 26:24 42:14 45:3,10,14 57:8 67:2 Nipper 4:22 6:18 46:1 51:13 65:4 NiPpEr2000 41:22 NOLL 2:6 nondisclosure 33:4 nonpatched 58:6 58:7 nonsense 57:20 Norris 10:17 14:2 14:13 23:9 24:13,20 25:1,1 25:5 26:5,16 27:20 28:15,22 28:24 37:11 Nos 18:3 note 63:16 notice 61:21 notified 69:6 Nova 52:12,14 November 36:22 36:24 number 11:10,21 11:24 21:13,16 24:23 28:19,21 28:23 36:4,8 65:20 numbers 17:22 18:5 36:6,8,9,10 60:6 numerous 30:1,2	occurrence 23:6 October 49:14,19 49:20 51:25 52:16 55:21 offer 9:24 offered 65:6 official 1:21 49:18 Oh 5:10,12 okay 31:1 41:4 63:1 old 69:16 Oliver 39:20 40:2 40:3 49:15 omission 36:2 once 7:10 55:18 ones 22:20,23,24 one-year 48:10 online 25:9 Ontario 32:2 42:12 64:22,24 66:25 oOo 70:8 71:1 open 55:10 57:6 58:2 62:24 opening 34:11 36:15 operate 11:2 operation 10:21 10:22 11:4,16 11:19,22 12:4 16:6,10,12 21:23 25:24 operational 21:12 22:12 operations 21:12 22:12 30:7 opinion 40:25 42:5 44:16 68:11 opinions 47:9 opportunity 23:4 opposed 50:2 Orban 54:11 58:12 60:2 ordered 19:9,12 organizations 22:22 original 19:10 63:12 originally 61:16	originated 22:18 Osborne 6:23 9:8 9:10,13 64:20 64:22 ought 6:17 50:11 62:7 outside 64:12 68:14 outstanding 61:19 overflow 42:9,13 44:17 55:11,17 55:24 56:10 57:17,22 60:20 60:25 61:4,9 O'MELVENY 2:12	21:21 24:22 28:14 30:4 parties 4:7 17:25 18:1 partners 39:3 parts 34:23 patch 56:3,10 pause 5:24 31:3 39:21 pay 5:13 9:19 13:15,24 23:4,6 23:14 49:21 50:6,12,13 payback 11:13 paying 7:5 16:25 19:15 pay-TV 31:20,21 Peled 23:5 33:24 40:3,5,6 48:9 49:3,9 people 6:3,25 7:4 7:5,17,20,23 10:10,11,13 12:7 13:19 23:12 25:5 32:2 35:24 39:9 52:10 people's 34:9 percent 54:22 perfectly 25:17 28:7 30:22 period 57:19 Perlman 5:23,23 6:1,7,13 permission 11:5 permissions 41:24 person 5:17 6:14 6:21 7:11,15,25 8:22 9:21 10:5 16:17 17:10 30:13 46:6 personal 28:21 Phoenix 42:11 phone 28:19 phonetic 6:15 phrases 60:6 picture 27:17 piece 36:14 pieces 30:2	pillars 42:5 44:16 Pilon 6:21,22,23 piracy 8:5,6,9,11 8:21,22,23 9:1,3 10:24,25 14:6 14:15,18,20,21 14:25 15:22,23 16:4 22:8,8 23:23 24:1,1,3 24:20,24 25:8 25:21,24 26:3 26:18 27:8 28:4 28:13 29:9 30:21,21 31:12 31:13 36:3,11 47:16 48:18,21 48:25 50:17 52:15,16 54:21 55:24 57:23 59:2,6,8,9,11,14 59:16 62:2,3,6 63:19,25 64:1 64:12,16,22 66:12,25 67:13 67:23,25 68:3 pirate 9:8 21:24 29:4 30:2,3,11 30:16 pirated 34:3 pirates 21:17 24:7 26:1 29:2 30:6,8 31:20,25 34:24 64:18 PiratesDen 41:22 Pizzo 7:6 41:20 place 38:14 52:9 PLAINTIFF 2:3 plaintiffs 1:6 4:15 4:17 11:15 12:20 14:1 15:3 16:24 17:21 20:5,18 22:1,13 22:15 23:18 24:12 25:16 27:10 29:11,14 32:8 33:7 35:10 36:12 37:15 38:17 40:19 42:4 47:3,13 48:16 51:3 52:6
<hr/> O <hr/> O 1:3 oath 5:10 15:21 obligation 60:14 obtained 64:23 occurred 51:25 52:4 65:13,22		<hr/> P <hr/> packages 13:23 14:6 15:5 16:1 16:15,21 page 3:2 18:5 71:9 pages 10:6 17:17 17:19 18:6 22:7 27:3 37:16 38:12 paid 4:19 5:6,9,11 7:6,13 9:11 10:2 16:25 17:1 19:20 23:1 paraded 26:22 paragraph 53:13 61:24 63:15 parameter 43:19 parent 40:11 part 6:23 7:23 8:1 16:10 18:1 34:5 35:7 36:12,17 37:1 44:5 65:8 participate 24:24 25:7 participated 25:20,23 50:17 participating 47:16 particular 29:21 51:14 particularly		

52:19 53:1,10 53:18 60:14,18 63:23 66:14,17 66:19 planning 37:8 plausible 50:4 PLC 1:8 2:11 please 68:12 Plex 6:24 64:23 point 12:3,6 30:18 30:19 32:23 35:17,20 59:20 pointed 44:13,14 44:15 points 42:24 pop 59:24 portion 44:6 possibilities 61:25 possibility 62:5 possible 10:15 post 48:14 posted 6:18 41:20 41:22 42:20 43:16 45:25 46:1,3,8,15 67:5 posting 4:22 38:24 39:14,18 44:25 55:1 59:5 67:10 postings 6:8,10,12 25:10,12 36:18 36:24 37:19,20 38:15 40:20 41:18,24 42:6 42:17 48:18 53:8,17,22 54:18 57:21 58:11,14,25 59:13 61:11 66:11 practices 13:1 precisely 20:25 34:8 38:1 45:19 precursor 44:25 prepare 68:16 prepared 46:21 46:25 preponderance 52:20 presence 4:4 41:9	68:14 present 2:23 4:6,6 4:7 41:11,11 presentation 45:6 presented 4:17 6:12 45:14 presently 63:17 preserved 27:2 president 54:7,20 55:3 PRESIDING 1:3 pretty 9:7 23:6 prevent 34:20,21 prevented 60:17 price 50:16 62:7 62:14,15 primarily 30:8 prior 61:20 probably 9:22 62:22 problem 55:6,19 68:20 problems 69:21 proceedings 1:14 3:2 41:8 70:6 71:8 process 34:8 produced 13:2 45:20 46:24 product 33:18 65:7 Productions 46:22,25 67:6 products 32:15 professional 22:20,22 63:12 professionally 32:11 profit 59:25 profits 62:19 63:7 63:24,25 64:1 64:11 program 11:7,23 22:19 24:6,17 26:12,16 28:15 34:4 43:18 programmer 11:20 programmers 12:3	programming 26:10,14 65:21 65:24 programs 11:20 43:18 44:5,13 progress 54:23 project 29:15,18 29:19 32:13 33:17 35:19 36:22 41:18 52:1 projects 31:6 promise 36:19 promised 41:16 proprietary 20:8 prosecutions 29:2 protect 21:3 22:25 protected 51:18 prove 51:17,20,24 52:3 proved 52:15,20 provide 6:11 21:7 provided 4:20 12:1,23 18:4 65:6 provider 14:16 29:7 50:16 providers 22:20 provider's 53:20 providing 8:24 43:19 proving 53:2 public 63:17 65:6 publicly 31:17 published 36:14 56:19 pull 22:3 pulled 53:13 purchased 61:16 purchasing 29:20 30:1,3 purpose 48:24 purposes 27:20 27:22 28:8,9,10 pursuant 71:5 put 6:6,17 21:21 25:19 26:23 28:6 30:16 44:2 50:7	putting 69:14 70:1 p.m 4:3 41:7,8 69:2 70:5 P2 9:4 P4 17:4,6,9,12 29:21 <hr/> Q <hr/> quarter 41:2,5 question 8:8 12:11,12 47:6 51:12,13 52:18 52:22,24,25 58:18 64:25 questioning 5:5 questions 8:8,11 19:2,5,20 23:25 51:7 66:15,18 quiet 9:20 Quinn 7:22 12:7 quite 33:15 63:11 <hr/> R <hr/> R 2:13 rampant 59:8 ran 27:12 69:21 rationale 47:10 Ray 23:17 48:8 reach 69:14 readily 34:24 ready 61:13 68:7 real 54:15 really 46:25 48:4 67:21 reason 5:14 10:19 18:21 20:15 38:14 59:1 reasonable 60:15 60:18 reasoning 47:11 reasons 9:23 20:11 31:2 50:3 63:21 rebuttal 45:8 62:23,24 68:6 recall 58:21 receipt 65:20,23 receive 8:8,9 26:10,13 41:23	received 12:16 55:21 receiver 38:7 receiving 12:14 recess 41:3,4,7 68:7 70:5 recessed 68:13 recipe 41:20 recognized 46:9 record 36:25 67:11,14 recruited 8:22 10:23 red 43:1,2,3 refused 18:16 47:23 regarding 17:6 21:12 44:11 registered 6:4 regular 23:6 regularly 25:2 regulations 71:10 relate 17:3 68:23 related 5:9 46:13 46:16 59:19 65:18,20 relates 21:15 relationship 39:25 relocated 24:25 rely 4:15,16 remain 68:12 remained 48:21 remaining 68:17 remarks 66:18 remember 25:22 49:14 53:18 54:9 remembers 54:4 54:14 remind 42:23 Renaud 6:24 rented 32:4,6 reopened 57:14 57:20 repeated 34:14 replace 54:2 61:19 replaced 50:9 61:12 62:16
--	--	--	---	--

replacement 61:23	62:1,2,3,6 67:9 67:19	13:2 16:12,22 17:18 18:4 21:16,22 26:1	searches 18:8 27:6,13 SEC 53:23,24 55:2 second 53:13 62:5 64:25 65:1 66:23 secret 20:2 23:8 31:18 32:14 35:19 61:24 Section 71:5 secure 21:7 34:3 48:21 58:8 secured 56:16 security 21:12 22:12 39:5 54:3 57:10 see 6:4 10:1 18:9 19:21,22 27:7 27:11 36:16 37:1 41:5 45:6 46:11 50:20 seeing 35:8 seen 26:12 29:21 53:12 54:7,9,12 57:6 58:9,23 67:19 sending 12:7 senior 54:7 sense 47:15,20 48:15,22 49:11 sensitive 17:5 20:11 sent 9:18 11:6,9 12:3 16:8,18 26:5 29:24 37:13 separate 62:11 September 40:2 49:17 sequence 12:22 36:21 Serebryany 17:3 Sergei 7:22 12:8 series 4:17 12:1 serve 48:24 servers 13:10 service 65:7 session 4:5 41:10 setting 67:14	settle 37:17 set-top 36:7 54:3 seven 16:6 43:6 62:21,23 share 33:19 shell 44:23 shipments 11:10 shipped 11:10 12:10,11,12 Shkedy 33:1 34:16,25 52:2 show 16:16 18:9 20:19,24 22:2,3 22:6,13 34:12 37:16 44:1,8,24 47:1 49:10 67:3 67:21 showed 7:14 16:21 27:17 35:15 38:12 42:25 43:25 46:2 56:4 57:7 60:5 66:24 showing 42:1 53:3 67:8 shows 20:15 21:9 44:4 67:21 shut 24:14 side 10:25 sides 69:25 signal 20:7 significant 19:23 46:4 48:19 63:21 67:10 signs 49:16 similarities 11:14 11:17 42:5,15 44:1 45:24 46:2 46:7 similarity 13:21 42:16 44:4 simple 23:1 single 4:18 8:8 22:5,6 27:5,7,11 47:1 57:7,10 58:9,23 67:12 67:14,16 sinister 25:18 26:10,21 28:8 site 24:11
report 20:18,23 20:24 21:5 36:13,14,17,17 36:23 37:2,11 37:17 38:13 42:19 52:1 53:24 56:20 58:1 60:4 64:9 reported 31:19 57:1 70:6 71:7 Reporter 1:21 71:15 REPORTER'S 1:14 reports 4:15 37:11 57:6,10 64:8 representation 44:7 representatives 55:15 reprogram 26:9 27:25 reprogrammed 26:13 30:12 41:23 reprogramming 11:5 26:6 66:1 requirements 51:15,23 65:9 65:10 66:2 requires 65:19,21 research 33:21 34:5 respect 53:19 response 45:2,9 45:23 46:19 47:12 67:2,7 responsible 4:22 7:16 32:11 33:3 63:22 65:10,16 66:10,11 67:22 rest 26:24 restroom 68:22 result 27:6 34:13 43:13,21 48:23 57:20 58:10,24 59:13,14,15	results 16:11 resumed 41:8 retained 26:3 return 66:14 Reuven 9:18 21:11 38:25 revenue 67:16 revenues 67:14 reverse 31:4,4,7 31:11,13,14 32:9 33:8,11,22 33:23 34:13,18 38:20 reverse-engineer 35:5,13 49:5 reverse-enginee... 32:15 38:23 reverse-enginee... 29:14 31:6,9 35:7 40:20 68:1 review 42:2 43:16 53:5 reviewed 27:5 46:23 57:8 RICHARD 2:18 right 4:5 7:10 8:12,14 9:19 13:7 15:18 38:9 41:10 43:3 rights 56:16,23 risk 21:25 24:19 24:21 69:4 roads 66:23 role 49:4,6 ROM 29:23 42:10 42:13 44:17 56:2,3,15 58:1,3 58:5,7,8,11 61:1 61:1,3,6,6,7,7,7 61:8 63:16,23 63:25 64:7,10 64:10 ROMs 63:16 Ron 8:20 9:2,10 9:13,17 10:19 10:23 11:3,6,9 11:16 12:1,4,11 12:11,12,23	Room 1:22 routine 31:10 43:11,11,12 RPR 1:21 71:16 Rubin 2:24 19:24 19:25 20:9 30:15 32:9,12 32:15 33:5,5 42:3 43:25 44:2 44:2,13,19 45:3 47:5 49:8 50:15 50:20 56:9 Rubin's 44:14,16 45:2,7 rule 70:6 run 39:4 <hr/> S <hr/> s 50:2 sabotage 48:11 SACV 1:7 safety 54:16 Saggiori 5:2,3,5,6 San 2:15 Santa 1:16,23 4:1 sat 7:10,14 satansplayhouse 17:13 satellite 1:5 2:3 14:6 53:20 saw 9:16 11:21 27:25 29:23 30:1,2 31:25 36:13 37:21,22 46:8 50:20 60:2 62:14 64:8 saying 63:17,18 says 6:18 12:25 37:12 50:9 63:16 scanning 6:25 scheduling 68:20 Scotia 52:12,14 scramble 34:23 sealed 37:9 Sean 7:22 12:7 searched 27:2		

<p>six 27:3 53:16 57:8 size 44:22 55:11 slide 25:20,22 Smart 22:21 29:21 50:7 53:15 61:19,22 62:8,10 sniffer 27:18 Snyder 2:13 4:9 4:11,13 40:22 41:6,13,15 63:1 63:3 software 11:5,18 33:10,14 57:1 58:2,4 sold 59:25 somebody 9:11 18:18 50:6,13 50:22,23,25 somewhat 60:7,7 soon 38:23 sorry 12:12 43:2 56:2 sort 15:17 36:4 sound 28:8 35:10 sounded 27:24 source 8:16 13:18 13:18 sources 6:10,12 25:14 Southeast 29:4 Southern 14:12 special 43:19 51:8 52:19 65:1 specific 34:17,19 37:5,6 51:14 specifically 11:22 speculation 63:5 speculative 63:4 spend 62:18 spending 37:23 spent 37:12 stamp 18:2 Stan 8:1,2,2 stand 15:20 28:15 30:24 33:9 45:9 45:11 46:8 47:7 50:19 57:5 59:10 62:12</p>	<p>Stanley 52:11 Stars 2:20 start 16:14,22 69:18 started 18:24 22:24 47:21 state 57:23 States 1:1,22 9:1 52:2,4,16 63:14 64:12,17,19,20 65:13,17 66:12 71:6,10 statute 51:16 stays 9:20 stealing 54:24 stenographically 71:7 step 61:14 steps 24:23 stipulation 17:21 17:22 18:1 70:3 STMicro 55:15 stolen 17:2 19:2 50:23 STONE 2:18 stood 42:5 45:5 stop 67:24 stories 10:3 story 7:12 22:4 Street 1:22 stuff 19:3,4,4,4,4 54:22 68:22 stuffed 12:17 StuntGuy 7:15 32:3 66:20 ST19 61:6 subject 37:18 61:4 subroutine 43:20 substantial 28:12 41:25 successful 10:20 54:1 successfully 27:21 sued 9:6 16:12 suggest 22:7,8,9 52:7 57:21 68:2 suggested 47:15 suggesting 58:10 suggests 58:24</p>	<p>59:1 Suite 2:8,15,20 suits 5:19,20 28:8 summarized 44:11 summer 57:13,19 sums 67:15 superior 44:19,22 supplied 9:4 26:14 supplying 32:2 supporting 22:13 suppose 10:11 supposed 12:16 25:7 53:19 supposedly 7:22 8:1 11:20 12:3 52:9 57:16 sure 9:20 10:18 13:8 18:20 19:21 24:23 25:14 45:6 surfing 13:16 surprise 8:5,14 11:17 35:17,23 51:12 surprising 23:14 37:24 suspicious 16:2 23:3 24:4 27:17 35:11 37:15 49:12 suspiciously 16:21 swap 50:6,12 53:6 53:10,20,21,22 54:13 57:22,24 58:10,13,19,24 59:2,4,12,13 60:21 62:1,5 67:9 swap-out 53:15 Swears 5:10 Swiss 46:22,24 67:5 Switzerland 29:25 synthesize 67:20 system 20:2,7 22:10 29:9,15</p>	<p>30:17 31:21,24 39:5,7 47:23 48:3,5,12,20 50:18 68:3 systems 29:8 30:4 54:8</p> <hr/> <p style="text-align: center;">T</p> <hr/> <p>T 2:4 take 4:24 6:5,9 11:14 16:3 22:16 23:3,19 23:24 24:7,9 25:16 27:16 28:7,15 30:16 33:18 34:22 35:14 36:21 37:4 47:7 50:19 51:4 52:9 56:12 57:23 61:14 68:7,21 taken 24:11 60:21 60:22 talk 4:15,24 5:1 8:6,11,15 20:9 21:13 31:3 41:16 47:14 66:16 68:17 talked 7:20 13:22 39:7,8,22 47:14 51:3 talking 4:14 18:24 20:6,18 25:22 35:16 62:18 Tampa 42:12 target 20:8 21:23 Tarnovsky 4:21 7:18 8:22,23 10:23 11:2,9,19 12:13,14,16 14:13,15 15:7 15:20,20 16:9 16:18,20 21:15 21:21 23:4,10 23:11 24:16,18 24:19 25:5,11 25:20,23 26:2,5 26:8,11,17 27:8 27:19 28:1,3 30:12 35:22</p>	<p>36:3,5,8,9,13,16 37:1,3,7,10,16 37:22 38:4,13 39:18 40:16 64:12 Tarnovsky's 23:8 24:22 25:13,17 26:23 27:1,12 63:10 65:25 tasked 34:7 technical 17:9 technique 31:20 46:16 techniques 31:17 31:24 35:2,8 technological 51:17,21 technology 17:6 33:12 34:2,8,9 34:10 38:1 65:7 telephone 25:3 tell 5:18,18 6:10 9:13 14:1,10 17:23 18:16 20:22 22:1 30:15,25 31:11 31:12,12 36:1,2 42:8 43:7 48:17 50:5 53:19 58:18 telling 35:20 tells 10:3 ten 42:19 44:12 45:15 terabyte 26:25 terminate 43:18 terminates 43:19 tested 26:15,16 testified 7:18 15:21 59:3 64:13 testify 6:10,15 7:3 7:9 15:16 18:12 24:13,13 26:25 27:6 28:22 37:3 37:3,21,22 61:9 testifying 45:4 testimony 6:1,18 8:3 15:17 16:18 42:1,23 45:3</p>
--	---	---	--	--

46:19 59:10 61:15 testing 35:8 Texas 2:8 13:22 13:24 16:16,21 text 13:2,3,6,8 thank 4:8,11 41:6 41:12,15 63:1 68:4,5 70:4 theft 18:23 theoretical 24:19 theory 36:12 thereof 65:8 they'd 29:17 thing 7:10 11:25 12:18 14:13 29:10 36:1 43:3 46:14 59:7,18 60:2 63:13 things 6:5,6 29:12 30:19 31:1,7 47:14,18,19 48:22 51:5 59:19 65:20 think 5:4 6:16 8:6 8:13,18 9:21 12:19 15:19 17:20 18:19 23:20 24:10 28:19 35:22 36:19 37:15,23 39:21 40:22 43:5 47:18 50:21,23 52:8 52:14 53:5 54:6 54:15 55:12 66:8 67:11 69:10,13,24,25 thinks 6:19 50:11 third 65:18 67:2 thorough 39:4 thought 18:11 19:2 24:21 26:23 33:25 34:1,2 38:2 thousand 63:12 64:13 thousands 10:5,5 17:17 22:7 threats 9:9	three 7:17 34:17 39:12 48:4,5 63:16,19 69:15 three-day 69:7 thrown 69:4 Thunder 7:1 32:1 64:23 ticked 52:11 time 10:14 11:12 14:22 26:24 32:6 37:23 38:6 39:22 40:7,23 42:8 47:10 51:5 54:12 57:24 62:21,24 65:25 67:3,24 times 13:9 36:23 53:12 timing 16:1 49:12 Title 71:6 today 31:25 told 6:20 7:7,9,11 7:12,15 8:3 9:6 9:13 10:11,13 14:2,5 18:10 19:13 26:6 28:16 34:4,11 36:15 40:19 52:6 54:8 55:16 57:5 62:11 68:24 tolerable 48:21 59:9 tomorrow 69:18 tools 33:14 topics 20:25 total 43:6 60:6 trace 35:18 traces 35:22 36:5 36:7,8 tracked 66:21 trafficked 65:7 trained 34:7 transaction 49:18 transactions 48:19 transcript 1:14 71:7,9 transferred 28:24 tree 30:16	trees 17:20 tremendous 69:25 trial 1:15 29:11 45:4 tried 17:12 22:1 23:16 28:6,13 28:22,25 38:8 47:14 52:13 67:18,20 trouble 69:21 true 10:16 13:23 24:18 29:17 31:2 33:15 35:12 42:1 48:6 52:6 66:5 71:6 try 9:12,17,22 21:7 24:2,23 25:25 26:21 29:18 33:18 35:10 37:17 39:4 40:17 43:21 47:10 48:4,11,12 49:25 trying 21:7,17 22:9,15,25 27:16 29:9 35:4 40:8 50:25 53:19 Tuesday 69:21 turn 11:7 24:7 40:23 turned 50:16 turns 31:13 39:24 tutorial 28:25 TV 8:24 two 13:23 37:5,25 44:4 46:4,17 51:23 57:17 59:4 61:25 63:16,19 64:18 69:15 two-week 69:12 two-year 29:18 type 13:4,6,8 types 63:19	ultimately 24:14 53:25 64:5 unauthorized 34:21 uncontroverted 37:1 undercover 10:21 11:2 22:25 25:25 30:7 unit 25:10 United 1:1,22 9:1 52:2,4,16 63:14 64:12,17,19,20 65:13,17 66:12 71:6,10 unusual 21:5 un-rebutted 41:25 45:14 update 56:17 USA 63:17,18 use 11:6 27:25 30:10 32:14 35:2 47:23 60:15 63:17,20 68:21 useful 18:19 uses 43:11,12 U.S 71:15	Vivendi 40:11 Volume 1:8 4:2 70:7 volunteered 28:16 vs 1:7 vulnerabilities 20:16 21:1 vulnerability 55:17,24 56:11 57:17,22 60:20 60:25 61:9
W				
W 2:13 WADE 2:4,6 wait 48:5 Walker 10:22 11:16,19,22 12:4 16:6,10,12 25:25 want 8:11 12:20 13:11 15:10 18:22 19:18 25:16,18 26:21 27:23 30:11 35:10,18 38:17 40:17 42:23 48:16,17 50:24 59:20 61:14 62:21 63:7 64:25 66:14 67:15 68:17 wanted 7:10 11:8 34:3 48:11 50:6 53:10,21,21 54:13 wants 5:16 50:13 68:21 warranty 61:16 61:17,18 62:2,7 62:13,15 wasn't 7:13 8:25 14:22 27:4 29:17 31:18 35:6 40:3 46:6 53:8,17 59:4 61:24 way 35:11 38:25 43:10,18 44:22				
U				
UK 29:7				

55:7 59:15,17 62:25 67:23 ways 34:17,25 44:12 48:16 website 6:2,5,8 41:20 websites 24:9 Wednesday 1:17 4:1 69:1 week 5:21 19:6 37:12,14 50:1,1 weekly 37:11 weeks 39:11,12 69:15 WELCH 2:4,6 went 13:10 15:1 18:25 24:14 33:2 35:24 38:7 67:23 weren't 7:21 23:13 33:3 69:9 West 1:22 2:14 we'll 41:2,5 70:3 we're 4:5 37:9 41:10 we've 29:21 53:13 whatsoever 36:11 39:17 46:19 62:10 wheel 17:18 widely 56:20 WILLETTS 2:5 witness 5:22 16:20 45:11 59:3 witnesses 4:18,18 4:25 16:25 30:9 word 37:4 56:12 words 42:10 62:23 work 11:1,1 21:14 22:16 29:1 35:13 38:8 43:22 51:18 61:10 worked 6:24 9:17 10:20 11:2 24:6 25:6 29:3 39:9 working 7:3 13:13 16:14,22	20:15 25:25 28:3 40:4 49:15 works 35:9 world 5:17 31:23 67:23 worth 31:7 wouldn't 11:24 18:21 48:23,24 write 43:10 writes 54:22 writing 47:1 written 11:18,22 42:6,17 55:9 67:4 wrong 5:18 21:20 24:4 30:20,21 35:11 38:4,10 45:10,12 47:7 68:2 wrote 43:12 56:19	03-950 1:7 <hr/> 1 1 65:14 1st 37:9 1-053 1:22 1:00 69:2 1:03 4:3 1:57 41:7 10 56:2 58:5 61:1 61:1,3,6,7 63:25 10th 37:13 11 56:25 57:13 58:7 61:6,7 63:25 1185 56:15 1186 56:18 1270 20:4 14 16:7 1400 2:20 1443 37:10 1452 37:7 15th 69:1 150 13:16 1670 57:3,25 1674 56:25 1676 57:4 1687 57:2 17 1:8 4:2 189 23:17,19 1995 34:1 1996 31:18,22 47:21 55:9 1997 16:4 47:22 47:25 48:10 1998 36:22,24 38:23 48:11,18 52:1 1999 2:20 53:18 53:22,25 54:5 54:13,17 60:24 61:23	36:19,25 37:19 48:3,14 51:25 52:16 53:17,22 54:18,19 55:14 55:20,21 58:15 58:17,20,25 61:11 65:12,17 65:22,25 2001 14:3 37:2 39:25 40:2 49:14 54:21 55:3 56:15,18 56:22,25 57:13 57:18,19 64:10 2002 39:25 57:3 59:4,8 2003 57:3,4,25 59:8 2004 58:18 2008 1:17 4:1 71:12 2008-05-07 1:25 23rd 41:19 24th 41:22 2401 2:7 25 68:8 26,000 17:19 18:6 2600 2:15 275 2:14 28 51:25 71:6	48 61:20 <hr/> 5 50 59:24 51 26:4 52 27:25 558-8141 1:23 <hr/> 6 600 49:22 691 61:17 <hr/> 7 7 1:17 4:1 700 2:8 713 2:9 714 1:23 753 71:5 77057 2:8 785-4600 2:21 <hr/> 8 8 71:12 812 54:19 824 64:9 828 53:11 <hr/> 9 9 59:24 90067 2:21 92701 1:23 94111 2:15 9472 1:21 71:16 952-4334 2:9 98 36:24 984-8700 2:16 988 12:21 989 12:21 990 12:21 991 12:21
<hr/> X X 3:1 32:20 xbr21 7:7 42:20 43:11,18 44:25 45:25 46:1,15 66:20 67:5	<hr/> Y Yeah 30:25 year 13:16 16:5,8 31:22 47:22 49:21 53:25 61:11 67:15,16 years 13:13 23:15 48:4,5 54:4 59:5 60:22 yellow 19:4 yesterday 29:13 29:17 33:16 York 52:11,13	<hr/> 2 2 58:1 63:25 64:10 2:17 41:8 2:59 70:5 20 68:8,9 2000 6:8 16:11,14	<hr/> 3 3 42:10,13 44:17 56:3,15 58:3,8 58:11 63:23 64:10 3M 41:24 63:13 310 2:21 36 43:13 366 20:1 391 20:10,10,22 21:9 35:16	<hr/> 4 4 3:3 69:11 4th 1:22 41 63:10 411 1:22 415 2:16 447 21:11
<hr/> \$ \$10,000 32:5 \$20,000 11:9 \$5,000 17:1 \$6,000 13:15	<hr/> 0 03 49:25			