

Vessel Monitoring System

143

1 missions.

2 MR. EHRMANN: Why don't we go ahead,
3 Commissioner Sandifer, and have the overview on the
4 vessel monitoring system and then take any additional
5 questions on that or on the previous group.

6 VESSEL MONITORING SYSTEM

7 DR. SANDIFER: Vessel monitoring systems have
8 been described as important safety advances by some and
9 "ankle bracelets" by others. The bottom line is it is
10 an electronic means of tracking vessels so that one
11 could determine whether or not vessels were where they
12 are supposed to be, that is, within permitted areas or
13 open areas for fishing activities and what they were
14 doing to some degree in those areas, depending on the
15 sophistication of the equipment.

16 Alaska has taken the lead in this, a number of

17 fisheries have looked at the vessel monitoring systems
18 and have found them to be extremely effective from a
19 safety point of view as well as from an enforcement
20 compliance point of view. Alaska, as I said, has taken
21 a lead in this and has sort of bitten the bullet.
22 Despite some, as I understood it, some early complaints

1 seems to be very well satisfied with it.

2 Our working group looked at this and
3 considered everything from vessels all the way down to
4 recreational vessels or vessels involved in any kind of
5 extractive uses of the public resource in the federal
6 waters. We came back to what made a lot of sense to us
7 at this point, and that is, the requirement for vessel
8 monitoring systems for commercial vessels permitted
9 under federal fisheries plans.

10 The vessel monitoring systems would be a
11 national core requirement, basically a national RFP, a
12 standard, set for what these vessel monitoring systems
13 could be and that they be developed and put into place
14 through cooperative efforts of the National Marine
15 Fisheries Service and the Coast Guard.

16 We also had a considerable discussion of who
17 should pay for this. The National Marine Fisheries

18 Service has, in fact, planned if it gets the budgets it
19 would like to have to pay for a good number of these,
20 enough to outfit I think several thousand fishery
21 vessels.

22 In keeping with others of our discussions,

1 about how best to pay for things where the user is
2 extracting a private value from a public resource, we
3 felt that the best recommendation should be that the
4 cost for the installation and operation of the vessel
5 monitoring system should be borne by the users, the
6 fishers in this case.

7 We recognize that it may be necessary in some
8 fisheries in some circumstances for the federal
9 government to step in with the initial investment. We
10 also recognize that perhaps another way to get there is
11 for the federal government to provide the volume
12 purchasing but the individual cost to be borne by the
13 operators.

14 We are trying to get a point across that this
15 is the sort of thing that should be a part of the
16 permitted fee, or the user fee, to ensure the public
17 that the fishery is in fact complying with the
18 requirements of his or her permit.

19 Again, go back one step. This is not just a
20 compliance issue, but this is a matter that also
21 provides a substantial margin of safety for these
22 vessels operating in many cases in deep and rough

1 waters. That is it.

2 DR. ROSENBERG: Well, I have to say, since we
3 often say very appropriate but very nice things about
4 Alaska fisheries, that in this case New England
5 implemented a mandatory VMS system for the scallop
6 fleet well in advance and it was paid for by
7 the users. I just had to get that in.

8 DR. SANDIFER: Your amendment is accepted.

9 DR. ROSENBERG: I think, more to the point,
10 the actual costs can be quite low. I mean, on a lease
11 basis the last figures I heard were maybe \$200 a month
12 for the boats that are fishing a couple of hundred miles
13 offshore. Now, we saw the various kinds of vessels in
14 Alaska, and \$200 a month is not a big item in their
15 budget; it is not a matter of purchasing the equipment.

16 There also are, I would point out, a lot of
17 alternatives to the regular, if you like, dedicated-VMS
18 system in the Gulf. They have even tested and used

19 systems that basically use a cell phone. Anybody that
20 has bought a cell phone recently knows they are
21 GPS-enabled. If you call 911, they can find you. Well,
22 you can use that same system for very, very low cost on

1 a small fishing vessel.

2 I would strongly support the idea that the
3 cost should be borne by the fishing community. One
4 thing that would help here is that many vessels in their
5 capital construction funds, which is tax sheltered money
6 that they are able to accumulate for upgrading vessels,
7 you know, have difficulty actually spending the upgraded
8 money.

9 There is a very, very large sum of money held
10 in capital construction funds. If it was specifically
11 allowed that these kinds of technologies were allowable
12 purchases under capital construction funds, then that
13 mitigates the cost quite substantially, even for a large
14 fleet of vessels. Of course, again, it is tax-deferred
15 money and they can only take it out for certain
16 purposes, so if this is one of the allowable purposes,
17 it makes it easier.

18 DR. SANDIFER: Excellent points, Andy. I see
19 the members of the working group at least nodding assent
20 on this later point you made about the capital
21 construction funds. I think that is something we can
22 add in here, and it would be provide an incentive as

1 well to the fishers and eventually to others involved in
2 large boating activities to move to a vessel monitoring
3 system.

4 MR. EHRMANN: Does any commissioner have a
5 concern about that modification?

6 (No verbal response.)

7 MR. EHRMANN: It sounds good?
8 Commissioner Coleman?

9 DR. COLEMAN: One thing is the actual VMS
10 sensoring itself, you have indicated you think and so
11 has Andy, that it is to be borne by the fishers. The
12 monitoring of this, the whole infrastructure that is
13 needed, well, that potentially could fall upon the
14 states to do this. I think Alaska is doing that now.
15 How do you deal with that?

16 MR. RASMUSON: It is not that difficult. It
17 is called a transponder. Every airplane has to have a
18 transponder. Just put a grid of, let's say, New England

19 out there or Alaska or whatever. You have all of these
20 little dots out there and hey see a dot going over the
21 other side of the line, and you know exactly what that
22 transponder number is. That is Andy Rosenberg's kids

1 out there and they will decide, "Well, never mind," you
2 know.

3 (General laughter.)

4 DR. COLEMAN: I understand the technology.

5 (General laughter.)

6 MR. RASMUSON: It is not hard to look at in a
7 big grid.

8 DR. COLEMAN: Yes. I understand the
9 technology and how it is used. However, I wonder what
10 are the inherent costs of this whole infrastructure that
11 needs to constantly monitor it? You are going to have
12 to (a) hire people to look at the screens, et cetera;
13 and (b) you have to have a communications system that
14 tells someone, "Go out there, they are violating this."
15 Who pays for that?

16 DR. SANDIFER: My comment on that is while we
17 didn't discuss that side of it, Jim, I believe it is

18 most of our beliefs that this will be taken up by the
19 National Marine Fisheries Service and particularly the
20 U.S. Coast Guard.

21 The Coast Guard is already monitoring, around-
22 the-clock monitoring, vessel traffic and radio traffic

1 for safety and other purposes anyway, and I don't know
2 that this takes a whole lot of additional personnel. It
3 does require some hardware and software on the federal
4 agency ends.

5 We are talking about vessels that are
6 operating in federal waters with federal permits, so it
7 is a federal responsibility very clearly. Who ends up
8 responding to a given distress call or a compliance call
9 may be subject to who is available, but the
10 responsibility to monitor those things is, in my view at
11 least, a federal responsibility.

12 I think it can be done by the Coast Guard,
13 frankly, without a whole lot of additional activities.
14 We have got Coast Guard folks here who can eventually
15 respond to us in writing or something, but it would seem
16 to me that it is part of what they do now monitoring
17 vessel traffic.

18 DR. ROSENBERG: If I could just address this

19 point just a little bit. A lot of the actual
20 infrastructure can be outsourced for the scallop Fleet in
21 New England. Originally, there were a couple of
22 certified vendors. It may be down to one or two now,

1 but essentially the vessel is required to contract with
2 a certified vendor who provides a service that,
3 essentially, then gives a data stream to the National
4 Marine Fisheries Service or the Coast Guard.

5 You can automate an awful lot of things such
6 as closed-area monitoring. It is simple to just put an
7 alarm on that says if you get within a certain distance
8 of the closed area, then notify personnel.

9 There are some personnel and data management
10 costs, but it is not creating this huge data management
11 and monitoring system because you can outsource quite a
12 bit of it. I would not say it is cost-free, but most of
13 it can be borne in terms of the contractual cost for
14 the units.

15 MR. EHRMANN: All right. Any other comments
16 on either the enforcement issues, the living marine
17 resources enforcement, or the VMS that we were just

18 talking about?

19 Yes, Admiral?

20 CHAIRMAN WATKINS: While you were all
21 discussing enforcement here, I talked to Captain Ross of
22 the Coast Guard, who has been good enough to be a

1 representative here to the Commission hearings from the
2 Commandant's Office about what might we be really able
3 to do to support the interim enhancement of enforcement
4 if, in fact, these kinds of statistics are going to draw
5 off those units and preclude them from doing it.

6 Is there any support that can be given to the
7 Coast Guard Auxiliary -- who are the little guys, the
8 older guys, the smaller ships, the 40-foot yachts -- to
9 go out here? I have watched them in the Chesapeake, and
10 they do a great job. Can they offset anything?

11 Is there any support at all for volunteers
12 that when their engines break down we help them pay for
13 it so they can get back out there again? What about the
14 acceleration of their acquisition program for the
15 modernization of their fleets, a 25-year program? Is
16 that something that we can accelerate?

17 Are there some alternate practices that can be
18 employed? This technology obviously is a help. Are

19 there other things that we can look at? Instead of just

20 grousing about this and saying throw money at it, is

21 there something else we can do?

22 I have kind of challenged them to have maybe

1 the Commandant send some kind of a letter to the
2 Commission here to say, "These are the kinds of things
3 we are working on to enhance the value of our
4 enforcement capability under traditional roles that
5 might give us a little interim boost from this funding
6 inadequacy that we now find ourselves in. If that
7 sounds okay to all of you, that is what I was doing over
8 there and clandestinely picking the Coast Guard's brains.

9 DR. SANDIFER: I think it is an excellent
10 idea, Admiral. I would only suggest that we extend it
11 to the National Marine Fisheries Service. We have
12 representatives from NOAA in the room, too, and they
13 could go back and ask NMFS's enforcement if there are
14 things that they might do or, better yet, to integrate
15 with the Coast Guard and how do we get this mission
16 accomplished, the monitoring of vessels in federal
17 waters, fisheries vessels.

18 I think the question of cost and adequacy of

19 manpower, what have they got to have, needs to be dealt
20 with. Here is an application of technology that we know
21 works. We have examples on the East Coast and the
22 West Coast that should be cited in our paper that we

1 know works. We know it provides both compliance
2 information for fisheries and safety information. It is
3 very useful, so let's move ahead.

4 CHAIRMAN WATKINS: Captain Ross endorsed that.

5 MR. EHRMANN: Any additional need from staff
6 for clarification or comments before we move on?

7 THE STAFF: (Shaking heads.)