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AMERICA’S WATER INFRASTRUCTURE NEEDS AND CHALLENGES: FEDERAL PANEL

Wednesday, January 17, 2018

United States Senate
Committee on Environment and Public Works
Washington, D.C.

The committee met, pursuant to notice, at 10:04 a.m. in room 406, Dirksen Senate Office Building, the Honorable John Barrasso [chairman of the committee] presiding.

STATEMENT OF THE HONORABLE JOHN BARRASSO, A UNITED STATES
SENATOR FROM THE STATE OF WYOMING

Senator Barrasso. Good morning. I call this hearing to order.

Today we are holding our second hearing in as many weeks highlighting the importance of water infrastructure and of passing a new Water Resource Development Act, or WRDA, in 2018. WRDA is a bill that authorizes projects and funding for the Army Corps of Engineers Civil Works Program.

Last week, the Committee heard testimony from a variety of private sector stakeholders representing inland waterways, ports, rural areas, as well as those promoting ecosystem restoration projects. Their testimony provided further evidence that it is critical that Congress keep with the tradition of biennial WRDA consideration and passing such legislation this year.

Today we will hear from the federal officials on how we can best address water infrastructure needs and challenges in any WRDA legislation. The Senate Environment and Public Works Committee has oversight over much of the Corps’ mission in water infrastructure, including locks, dams, flood migration, inland waterways, and ports. This hearing provides us an opportunity to hear from the Army and the Corps on what they perceive as the best solutions to the needs and challenges facing important
water infrastructure projects spread all across America.

As I said at least week’s hearing, unlike other contentious issues, historically, Republican and Democratic members of this Committee have been able to work together to pass WRDA legislation. I also noted last week that this legislation impacts every member of this Committee’s diverse constituencies.

To illustrate, Congress must prioritize the prevention of flooding and the modernization of our Nation’s levees, which protect people’s lives and their livelihoods across the Country. We can’t allow a repeat of the circumstances that led to the flooding in Worland, Wyoming and the evacuation of 80 citizens when the Big Horn River flooded due to ice jams.

We must also not lose sight of western States’ water supply and consumption needs. My constituents in Wyoming, as well as others, are well too familiar with the challenges associated with providing long-term water supply and storage.

Let’s not forget that sediment buildups continue to decrease the storage capacity of western reservoirs. An adequate and reliable water supply is necessary if western and rural communities and their economies are going to continue growing.

The Corps and the Bureau of Reclamation should continue sharing related information and work together in the hopes of solving these water supply problems.
To reiterate, we all have an important interest in maintaining the Nation’s water infrastructure. Let us commit ourselves and our resources towards legislating a bipartisan WRDA bill in 2018. Too much is at risk for us to abdicate this responsibility of ensuring the public’s safety, as well as ensuring the flow of goods, commodities, and raw materials through our inland waterways and ports.

I will now turn to the Ranking Member for his testimony. Senator Carper.

[The prepared statement of Senator Barrasso follows:]
STATEMENT OF THE HONORABLE THOMAS R. CARPER, A UNITED STATES
SENATOR FROM THE STATE OF DELAWARE

Senator Carper. Thanks, Mr. Chairman.

Gentlemen, it is great to see you both and we thank you. You will be working extra hard until we get Val confirmed to help you out a little bit. But thank you so much for being here and for your good work and your service.

This is the second of two hearings, as we know, and one of the great things about hearings on WRDA is this is something we can work on together. It is not so much a red State, blue State, it is not so much Democrat or Republican; it is just important stuff. And we realize that and we have a good history of that thanks to Senator Inhofe and Barbara Boxer and others before them.

When I first heard the term WRDA, I said, what is that? I am not a big fan of acronyms. I like this one. But WRDA is another one of those funny sounding acronyms that we all use too often in Washington. While it might sound funny, the truth is what is incorporated into a WRDA bill has a huge effect, oversized effect on the daily lives of a lot of us and our constituents.

For instance, members of Congress, perhaps like those of us here today, talk about critical dredging. That may sound boring, but if a ship is trying to get into this Country
carrying fruit, carrying vegetables, carrying meat, carrying seafood, a number of other foodstuffs, and our ports are unable to be reachable, that means prices at the grocery store might go up. And if prices at the grocery store rise, families who might already be struggling to put food on their table will have to figure out how to stretch their budget just a little bit further.

For most of all people among us, that ship being able to reach its port isn’t just a policy decision here in Washington, which is what we focus more on, but could be the difference between a hungry child or a healthier child.

Last week we discussed how more than 99 percent of the U.S. overseas trade volume moves through coastal channels that the Army Corps of Engineers maintains. I think that is amazing. I heard that number and I was amazed. Think about it, 99 percent. Additionally, the Corps’ inland waterways and locks form a freight network, think of it as a water highway, connecting waterways and ports, and providing direct access to international markets. They also serve as critical infrastructure for the U.S. military, as we know.

But the Corps does more than just conduct navigation projects. The agency is also involved in flood risk management, environmental restoration, among others. Navigation, however, makes up the most significant portion of the Corps’ authorized
work. Unless the Country experiences flood events, navigation work is the most visible activity in the Corps' portfolio on a day-to-day basis.

Unfortunately, as we all know, federal funding for new project construction and major rehabilitation has steadily declined. Corps activities have shifted to operations, to maintenance, and rehabilitation of existing infrastructure, while a backlog of deferred maintenance has continued to grow ever since. As a result, much of the Corps' infrastructure is now exceeding its useful lifespan.

Our waterways are the backbone of our economy, and the Corps is often an invisible agency keeping much of it together with limited resources. New estimates that my staff received after last week's hearing reveal that the Corps' overall construction backlog is now in the neighborhood of $96 billion worth of projects. If provided, this money would only address current needs; it does not include any of the funds that are needed for future investments.

We had a chart we used last week from the American Association of Port Authorities, a beautiful chart, but a little busy, a little busy. This one is a little less busy. But it illustrates, I think, very well what I am about to say, and that is, according to the American Association of Port Authorities, in port infrastructure alone, our Country is expected to need
over $65 billion in investment over the next decade to ensure a nurturing environment for U.S. job creation and economic growth.

As we heard last week, the American Society of Civil Engineers infrastructure report card tells an even more unsettling story. With dams, levees, and inland waterways receiving a grade of D, as in deplorable, their report card estimates that $162 billion of investment is needed in these types of infrastructure, 162.

As I said last week, with an annual budget that hovers around $4.6 billion, the Corps has a seemingly impossible math problem to overcome. Or maybe we have a seemingly impossible problem to overcome, and that is actually being willing to spend money for the things that we need, actually truly need. I like to say if a thing is worth having, they are worth paying for.

This Committee has worked hard on a bipartisan basis in recent years to return to the practice of developing WRDA bills in a timely manner. I am encouraged that we will continue that tradition in 2018 so that the ports, channels, waterways, and flood management initiatives on which so many States, businesses, and Americans depend can keep moving ever more goods and people without interruption.

I look forward to hearing from our witnesses, both of you. It is great to see you again. I look forward to hear your plan to overcome the more than $100 billion problem and enable us to
invest in our future. It will be interesting to see how you do it on $4.5 billion a year.

We must work in a bipartisan, bicameral fashion with the Administration to really address these concerns, build a consensus on a path forward in a smart, cost-efficient way. I would conclude by repeating what I said before: if things are worth having, they are worth paying for. This is worth having.

Thank you.

[The prepared statement of Senator Carper follows:]
Senator Barrasso. Thank you, Senator Carper.

In just a moment we will hear from our two witnesses: Ryan Fisher, the Principal Deputy Assistant Secretary of the Army for Civil Works and Acting Assistant Secretary of the Army for the United States Department of Army, as well as Lieutenant General Todd Semonite, who is the Chief of Engineers and Commanding General of the U.S. Army Corps of Engineers.

Before we get to the opening statements, I would like to first welcome Mr. Fisher, who recently took over as the Acting Assistant Secretary of the Army for Civil Works in November of 2017. While it is critical that we confirm a permanent Assistant Secretary as soon as possible, there is important work that needs to be done in the meantime, and we appreciate you filling in today and testifying before this Committee.

I would also like to welcome back to the Committee Lieutenant General Semonite, who last testified before this Committee at a Transportation Infrastructure Subcommittee hearing last May regarding the economic benefits that water resources have for local communities and for State economies, as well as the national economy.

So, I welcome you both here today and remind you that the full version of your written testimony will be made part of the official hearing record. Please keep your statements to five minutes so that we may have time for questions. Look forward to
hearing from you.

Senator Carper. Mr. Chairman, could I just say one thing?

Senator Barrasso. Senator Carper.

Senator Carper. The Finance Committee is meeting right now. We are having a markup on a couple of key nominees, and I am going to have to slip out probably close to 10:30. I will be back, but I don’t want to be disrespectful, it is just I wear a couple of different hats around here, like you do. Thanks so much.

Senator Inhofe. Mr. Chairman, let me also say that there are nine members of this Committee that are also on the Commerce Committee, and it seems like we are always meeting at the same time, so you are going to see us disappearing and reappearing during the course of this hearing.

Senator Barrasso. Mr. Fisher, please proceed.
Mr. Fisher. Thank you. Mr. Chairman, Ranking Member Carper, members of the Committee, I am honored to testify before you today on the water infrastructure needs and challenges facing the Nation. I am joined today by Lieutenant General Todd Semonite, Chief of Engineers. He will also provide a short opening statement.

As the Chairman mentioned, I was sworn in as the Principal Deputy Assistant Secretary of the Army for Civil Works in November and am currently serving as the Acting Assistant Secretary as well, and I very much look forward to working with this Committee as you move toward a possible WRDA bill.

The Corps of Engineers has played a significant role in the development of the Nation’s water resources. The Civil Works program of the Corps has three main missions: commercial navigation, flood and storm damage reduction, and aquatic ecosystem restoration. In this regard, the Corps work with our Nation’s coastal ports to maintain their channels, operates and maintains the inland waterways, supports State and local flood risk reduction efforts, works to restore significant aquatic ecosystems, and operates and maintains multipurpose dams and the reservoirs that are behind those. Additionally, the Corps is
one of the top federal providers of recreation in this Country.

The Corps constructed much of its civil works infrastructure in the first half of the 20th century, so, as you can imagine, the Corps dedicates a significant amount of its resources to maintain those key features of this infrastructure.

My office is working with the Administration as it continues to work on policy and administrative changes that can improve infrastructure delivery to the Nation, and Lieutenant General Semonite can elaborate a few examples where the Corps is making improvements within its regulatory program, as well as how it assists others in granting permission to modify existing civil works projects.

The way that we use our water resources can affect the Nation’s economy, its environment, and public safety. The Army and the Corps stand ready to help in addressing the water resource challenges of the 21st century, and I look forward to working with you on this very important issue, and again I thank you for the opportunity to appear here and testify today. Thank you.

[The prepared statement of Mr. Fisher follows:]
Senator Barrasso. Thank you, Mr. Fisher.

General Semonite.
STATEMENT OF LIEUTENANT GENERAL TODD T. SEMONITE, COMMANDING GENERAL AND CHIEF OF ENGINEERS, U.S. ARMY CORPS OF ENGINEERS

General Semonite. Chairman Barrasso, Ranking Member Carper, and distinguished members of the Committee, it is my pleasure to be here today, accompanied by Mr. Fisher, to provide testimony on the significance of the Water Resources Development Act, which provides the United States Army Corps of Engineers valuable authorities to implement the broad Civil Works program.

As Mr. Fisher mentioned, the Corps has played a significant role in the development of the Nation’s water resources. This infrastructure is a vital component of our national economy, enabling the low-cost shipment of goods through our coastal ports and on the inland waterways, reducing the flood risk to communities and businesses, and restoring aquatic ecosystems.

I have been in command of the Corps now for just over a year and a half, and I continue to be amazed by the breadth and complexity of the Civil Works program, as well as the expertise and dedication of the professionals that work in our organization. It is my belief that the credibility of the Corps is measured by our ability to deliver results that are on time, on budget, and of exceptional quality. In order to achieve these standards, the Corps continues to evaluate itself on how we can best accomplish these outcomes. To be most effective at delivering the Nation’s water infrastructure needs, the Corps
must become more efficient and consider new ways to prioritize, finance, and incentivize investments in water resource infrastructure.

The Corps has sought to review and apply a wide array of authorities provided in recent Water Resource Development Acts in a diligent manner. We are rapidly approaching completion and communication of an implementation guidance for both the 2014 and the 2016 Acts. Our team has endeavored to make substantial improvements in tracking and accelerating this progress, and, looking ahead, I believe that we can continue to improve our methodologies.

The Corps is also working to develop policy and administrative advancements that can improve infrastructure delivery. More specifically, we are looking internally at our policies, regulations, organizations, and procedures in order to identify opportunities for increased efficiency and effectiveness. These efforts include reducing redundancy and delegating authority to decision-making to the most practical and appropriate level. Several examples include streamlining the review process for potential modifications to Civil Works projects and seeking improvements to the execution of the regulatory program.

The Corps is fully committed to addressing the water resource challenges of the 21st century and seeks to evaluate
opportunities to be more efficient and effective in the delivery of the Civil Works program. We recognize the significance of infrastructure investment to the Nation’s economy and we look forward to working with this Committee as it develops a Water Resource Development Act for 2018.

Thank you for allowing me the time today to address the Committee.

[The prepared statement of General Semonite follows:]
Senator Barrasso. Well, thank you very much to both of you for your testimony. We have a number of members here with lots of interest and will ask about certain projects that are going on.

I would like to start. General Semonite, rural communities in Wyoming affected by ice jam flooding, the City of Worland that you are very familiar with, they are anxious to see projects built under the Ice Jam Prevention and Mitigation Pilot Program authorized by Section 1150 in the WIIN Act. Could you just give us an update of the status of the Corps’ implementation of this Ice Jam Prevention and Mitigation Pilot Program?

General Semonite. Yes, sir. So, right now we have four pilots that we are working. One of these is an active pilot. It is in Mile City, Montana and it goes back to fully look at some innovative approaches to be able to do ice jams. Worland, Wyoming is clearly one of the ones that we want to continue to keep working. We are pending new start approval and funding right now, but we have received a request from a letter to be able to put this in the CAP database and continue to work this out.

There is a third one in Platte River, Nebraska and a fourth one in Yellowstone River, Montana to be able to continue to find, I think, innovative ways. And you and I have talked about
this in the past. We have to be able to figure out how can we use some of these emerging technologies to be able to try to bring down this disaster response.

I have also personally talked to my Cold Regions Laboratory in Hanover, New Hampshire on ways that they can do this, innovative approaches, and continue to infuse those in there. We are certainly willing to do up to ten of these pilots. Right now we have only really seen four different communities that are interested. There is a cost share to this, so that is where the communities have to be able to find available funds. But we are committed to continue to make progress in this ice jam initiative to be able to bring down that risk.

Senator Barrasso. Thank you.

Mr. Fisher, since the General mentioned the CAP, the Continuing Authorities Program, I just want to ask you a little bit about that, because, as this is carried out by the Corps, it is vital to many rural communities. In particular, one of its several authorities concerns flood risk management challenges. What are your plans to help ensure that flood risk management projects that are backlogged in the CAP program queue are studied and billed in an efficient manner? And is there anything Congress can do to help the program succeed?

Mr. Fisher. So, yes, sir, the backlog is real, as was mentioned earlier, and it applies to every program, CAP
included. I believe you are referencing the Section 205 flood risk program. The Administration, we are open to everything, basically. We have seen opportunities for contributed funds agreements, where non-federal interests can contribute money towards construction, or even operation and maintenance in some cases. There is a lot of discussion, obviously, of the P3 public-private partnerships that this Administration is open to pursuing, as well. But as you mentioned, yes, $96 billion backlog and a budget that is roughly $5 billion, $6 billion a year, that is very real and the Administration looks forward to working with this Committee to find innovative ways to bolster that CAP program and other programs as well.

Senator Barrasso. General Semonite, rural communities still face challenges associated with providing long-term water supply and storage. Federal water storage facilities out west continue to lose existing space as a result of sediment buildup. This is a major problem for western States’ economies where there are rapidly growing populations enlarging energy industries, agriculture operations.

In 2016, Section 1115 of the Water Infrastructure Improvements for the Nation Act was enacted to help address this problem by creating the pilot programs to enable removal of sediment in Corps and Bureau of Reclamation reservoirs. Can you give us a little status on how things are going there?
General Semonite. Yes, sir. And we are worried about sediment buildup. I mean, the Nation has spent a lot of money building some of these structures. We want to make sure, first of all, we are optimizing that capacity. The more sediment goes in, obviously, the less water you can keep in there or the less flood control capacity. On the other hand, that continues to put pressure on the backside of these dams. Wherever we can mitigate that, we want to do it. We need to do it in an environmentally sensitive way. And the particular WRDA you are talking about does allow us to look at 10 different pilots to be able to go back and look at how can we remove sediment from behind dams. To be honest with you, though, we have not found partners right now that necessarily want to go into those pilots. So, we want to continue to stay open to that.

One of the things we do want to do, though, is look at those technologies. We have an environmental advisory board. We bring in some of the best from academia that are out in the Nation. I met with them in the Everglades last week, and some of the technologies we have seen in some areas where they are actually taking sediment, pumping it right over that structure and letting nature put that sediment back down in there. Now, we have to think about the environmental parts of that, but this might not be where you have to come in and dredge out the back of that dam and then find a way of getting rid of it; but how
can you use regional sediment management to somehow let nature refresh where that sediment needs to go, and then you are really solving two problems with one.

So, this is some of the innovative stuff we have to do to find out. Don’t just do it the old way, just the expensive way; how can we think out of the box and still do it so it is environmentally friendly.

Senator Barrasso. Thank you.

Senator Carper.

Senator Carper. Question, if I could, for Mr. Fisher. Have you ever been to Delaware?

Mr. Fisher. Sir, I have not, not in this capacity.

Senator Carper. Have you ever been to Maryland?

Mr. Fisher. Yes.

[Laughter.]

Senator Carper. Well, you have been to Delmarva, but not to the Del portion of Delmarva.

We are proud of our beaches. We have, the last time I checked, more five-star beaches in Delaware, believe it or not, than, I think, maybe any other State. And there is some pretty good competition around us, so that is pretty good talking stuff.

Senator Cardin has a lot of interest in beach nourishment and beach replenishment, and certainly so do a lot of States up
and down the East Coast. But for us in our State, we have maybe even more interest in the construction of a dune system that actually helps protect our beaches, not just our beaches, from loss down to Ocean City line, the Maryland line, but a dune system that protects not just our boardwalks, not just our businesses in the coastal towns, not just the folks who live there, our infrastructure, roads, highways, bridges, water, sewer, but all the above. And what we found out in the money that we spend in dune protection for our coastal towns, the cost of that is not cheap, but the cost of that is small compared to the cost of replacing one major hotel. So, it is really cost-effective.

I don’t know that we do as good a job as we ought to be able to do on cost-benefit ratio, but here is my question. And if you can’t answer this one right off the top of your head, then I will ask you to do it for the record. But it is important to us and it is important certainly to other States up and down the East Coast. But beach nourishment projects tend not to compete well in benefit-cost ratio analysis, which, compared to larger projects like ports. We have a great interest in ports as well, like the Port of Wilmington. How should we update or how could we update the benefit-cost ratio to incorporate more value from these types of projects into the assessment?
Mr. Fisher. Certainly. And I probably will have to do some research on this and get back to you with a fuller answer. BCR, as you know, is about maximizing return on investment; it is an opportunity cost calculation, and we certainly want to be looking at all the benefits of those dune projects and that sort of thing to make sure we are calculating all those effectively. But, yes, I will commit to providing you further information as I further research and briefed on that topic. Thank you.

Senator Carper. We look forward to that soon. Thank you.

General Semonite, you want to make a quick comment on that?

General Semonite. Sure.

Senator Carper. Let me just say again Delaware has a love affair with the Army Corps of Engineers. We just love the folks who work out of your Philadelphia office and just value very much the wonderful work they do not just for us, but up and down the Delmarva. Thank you.

General Semonite. Sir, to address your issue, and I think a theme that I would want to stress today is that just as you said up front, $96 billion of construction backlog, this Country can’t afford that, so we have to find innovative ways of having some of the stakeholders put some skin in the game. And if they are able to do that and somehow we can change the benefit-cost ratio to a point where now their project is able to see funding, then I think we have incentivized a lot of these people to be
able to take some of that burden off the Federal Government. Right now, the processes don’t necessarily allow, if somebody were to give money in, to be able to add more to their cost share or to put more money in from that particular area. You would like to think that those would compete better to be able to bring down the federal bill and also make those things more viable.

So I think as we work with the Committee, is it benefit-cost ratio or remaining benefit-cost ratio, it goes back to how OMB scores these, and how can somehow we find a way of changing some of this to a degree relatively a metric-based process to put a little bit more common sense back into how we use the federal dollar.

Senator Carper. Earlier in my time, in fact, when I was governor, the Federal Government put up a very large portion of these projects on our coast. The State share was raised, as you know, a few years ago. States now pay more than one-third of the cost of most of these projects, which is, I think, appropriate. I think it is appropriate.

I have a question now, if I could, for both Mr. Fisher and General Semonite. In past budget cycles, my staff and I have worked to find out why Delaware projects were not included in the President’s budget. A big one that was included was the dredging of the Delaware River Channel and Delaware Bay Channel,
which is important for a number of our States, including New Jersey and PA. But on more than one occasion it appears that a given project was somehow mistakenly deleted or omitted during the Administration’s budget develop and review process, including the Office of Management and Budget. We find this Administration black box to be a problem and a disservice to the American people. How do we create a more transparent and collaborative process to ensure that local and regional priorities do receive funding?

As you know, while Corps projects have a large national value, many times they primarily impact the local economy or the local health and safety, and it seems this gets lost in the current budgeting process. Any ideas on how we might address this? Thank you.

Mr. Fisher. Well, we certainly want to be working with all the relevant cost share partners and stakeholders on projects, be it in Delaware or anywhere.

Senator Carper. I like that, Delaware or anywhere.

[Laughter.]

Mr. Fisher. But, no, this Administration, in the budget process, obviously, the fiscal year 2019 budget is being developed now, and, with limited resources, we want to make sure that we are targeting taxpayer funds where they are most needed, using risk-informed decisions to target that funding.
Senator Carper. All right, thank you.

General Semonite. Sir, I think the word you used, transparent, we are committed to continue to be up-front and open, and to be able to make sure we are having this dialogue. So, you talk about what is a national project, what is a local project. Wilmington Harbor right now is a great example. They are looking to try to have a new access channel, so we assigned an MOA to try to figure out how can we continue to be able to coach them through how to make their project viable and to be able to compete. So that is where we want to make sure we are up-front. What are some of the trap lines? What are some of the lessons learned we have learned? And then at some given point the best thing we can do in the Corps is to give Mr. Fisher and you our recommendations of where the best use of that federal dollar is.

Now, if it doesn’t meet the cut line, then that is something we have to go back and look at. But I think when it goes to that, whether it is harbor deepening or some of these other infrastructure projects, the value back to the Nation here is unbelievable, and we have to be able to champion some of those the best we can.

Senator Carper. All right. Thanks so much.

Senator Barrasso. Senator Inhofe.

Senator Inhofe. Thank you, Mr. Chairman.
Secretary Fisher, following Senator Carper’s lead, have you ever been to Oklahoma?

Mr. Fisher. I have not, sir.

Senator Inhofe. All right. Well, we may have to correct that, because we have some specific problems in Oklahoma that we have been working with the Corps, and I think we have sent letters to the Corps and OMB on the importance of prioritizing new start programs, some of our levee system that we have. Senator Boozman and I are very much concerned also about some of the problems we have with our best kept secret, and that is that my State of Oklahoma houses the most inland port in America, and we do have ships, barges coming up and down. But Senator Boozman and I are very much concerned about the condition of the locks and the dams, and we have been talking about that for a long period of time, and I would hope that we would be able to address this as we look at the fiscal year 2019 budget, as well as the fiscal year 2018 work plan. So just keep that in mind, and any comments you want to make about that at a later time would be fine.

In the WRDA bill in 2007, that was 10 years ago, I authored Section 3134, creating an innovative program for lakes within Oklahoma and elsewhere in America. This had been a contentious subject for a long time and we have had quotes from various people that have been in the Corps for a long period of time
saying we are not in the recreational business, we are not going to be involved in that. However, they are involved. Anyway, just to make sure there is no question about that, I added language at that time, 10 years ago, and we actually, in the WIIN Act, more recently, removed the sunset provision to ensure that lake development innovation can be pursued by the Corps and used in other districts, too.

While we have seen a couple of truly great developments, and we have in Oklahoma, we have, unfortunately, been told that Congress did not provide the Corps with any additional authorities needed to actually be innovative.

Now, General Semonite, do you agree with that statement?

General Semonite. Sir, you know --

Senator Inhofe. It was made on behalf of the Corps. A quick answer is fine.

General Semonite. We definitely want to be as innovative as we can. I am not convinced that there is a funding piece there, though, that I can necessarily put my arms around.

Senator Inhofe. Okay. Now, this is what I am going to ask you to do, because I can’t find out what it is that we didn’t do to give you the authority to do it, so I would like to maybe get a report from you or someone you can have address this subject, say, in the next week or so. Let us know what are the obstacles out there, because I can’t find them.
Secondly, the City of Bartlesville, Oklahoma currently has three water storage contracts at a particular lake and the most recent contract was secured at a rate of $67.38 per acre foot. Now, that was the quote that we got, and it has been activated, from the Corps of Engineers.

Now, it is a growing city. They have problems over there and they have actually increased their use by 100 percent, and they really can’t do much more. However, they just tried to get another quote from the Tulsa District Corps of Engineers, and that quote was $1,997 per acre foot. Now, it has gone up from $16 to $2,000 an acre foot, and obviously that is something that can’t be provided.

Now, my office initiated a dialogue between the district and the city to find a compromise. It is my understanding that the district will be reaching out to the division and headquarters in order to do so. The Water Supply Act of 1958 directs the Corps to cooperate with States and local interests in developing water supplies in conjunction with federal water projects.

Now, the problem that we had with the district office is that this is out of our jurisdiction; we are going to have to go up the ladder. Well, today we are going up the ladder; that is you. And we would like to have your -- are you familiar with this problem in that particular city?
General Semonite. Sir, I am not familiar other than the last 24 hours. There was a GAO report that talked about Corps pricing. And I hate to say it, but the way that the rules were established several years ago, that pricing is different when it comes to State-to-State and city-to-city. Depends on how much did the project cost, when was it built, what were the authorized --

Senator Inhofe. That is the GAO --

General Semonite. That is the GAO report. So, the Tulsa District has provided a proposal to our Southwestern Division as of the last couple days. I will take a look at it. I will get back with you. I agree with you, you can’t have that level of an increase, $67 to $1,900. Something sounds wrong there. Sounds to me like we have our hands tied with how we charge water supply rates based on the project’s original construction cost, the year of the agreement, inflation, etcetera.

Senator Inhofe. Okay.

General Semonite. So there is some formula that we are probably caught into, and we have to figure out how to get relief from that.

Senator Inhofe. Okay, my time has expired, but you know that GAO has stated in this report that they didn’t get the ample information from the Corps to be able to make these determinations.
General Semonite. Then I will solve that, sir.

Senator Inhofe. All right. Very good.

Thank you, Mr. Chairman.

Senator Barrasso. Senator Booker.

Senator Booker. Thank you, Mr. Chairman.

Gentlemen, thank you both for your commitment to our Country. As you can hear from the passion of the folks, such important projects for our communities are often the difference between security and safety and destruction or worse in some senses.

I want to focus in about the Rahway River Flood Control Project. This is an extremely high priority for tens of thousands of people in my constituents who live in the impacted area, which happens to be some of the most populated counties in my State. I want to reiterate that the storms in November of 2007, Hurricane Irene, 2011 damaged hundreds and hundreds of homes and cost businesses over $100 million due to the flood damage. I cannot overstate the importance to my constituents and the risks that they face from flooding from the Rahway River and the importance of finding a way forward on this incredible project. I know you are familiar with it, probably pretty intimately, at least I hope so.

There is so much concern at the end of the day that we will have studied this a lot, for over a decade, and little gets
done. There is rising skepticism among some of my local leaders, cynicism that we are facing now. And I know that we can work together to overcome that skepticism, that cynicism, and you all have shown to me in the past your incredible creativity and engineering expertise, and I know that if we cooperate together with the local leaders that we can get this done and move forward.

So my first question, Lieutenant General, is I understand that there are ongoing discussions with the Corps that may be willing to both extend the 3x3x3 Rules, which I know you are familiar with, and continue the elevation of the project by doing a detailed geotechnical study of the Orange River Reservoir Dam. Can you confirm that, sir?

General Semonite. Senator, I can confirm that we are very involved with this. We do have the authority to extend the waiver, and we have extended a waiver to be able to make that study go longer. The other thing is we are very worried about the safety of that. This is a State dam, not a federal dam, and some of the proposals that were asked for was to be able to do something that we don’t think, in good engineering science, you can just go in and do. They were going to make some more outlet structures.

We want to work with the State to find a solution, but the actual recommended solution from the State we don’t think is
engineeringly viable. So, this is where we want to work with the locals to be able to figure out how we can get a better solution, continue the study to be able to figure out what options are out there, and then the question is how can we continue to make sure that it does compete for funding, if in fact we see the need out there.

But we are very concerned about the importance of that particular dam and we are committed to work with the State to try to find a solution, but it might not be the solution that the locals want. It is a very tight, constricted area and it is a very complicated dam. We know this one well, so we need to be able to really come up with a solution that is probably going to take a different engineering solution.

Senator Booker. No, I appreciate that. I think the commitment of being willing to extend the 3x3x3, that is huge, and your willingness to be creative in working with the locals to come up with a solution that works on both sides, that kind of passion is important. That kind of commitment is important to me.

General Semonite. Yes, Senator. And the cost of this is going to be out of the box. This is a very narrow area, so you are going to probably have to make the footprint bigger, so I am just saying it is not going to be an easy fix. But we are committed to find as much innovative solutions as we can, or at
least be able to somehow put other mitigating effects in place to be able to bring down the risk to the local people that are there.

Senator Booker. That, I appreciate. For Senator Menendez and I this is such a top priority because, as you know, New Jersey is the most densely populated State in terms of population, and this is one of our most densely populated areas in a densely populated State, so I am really grateful for that commitment; it means a lot to me.

I want to, with my last minute here, really quick. The federal flood risk management standard, you know that that has been changed, and after what we are seeing about a lot of the flooding and the challenges facing Texas and the Virgin Islands and Puerto Rico, the rule that was repealed would simply ensure that federally funded projects in a floodplain, such as roads, bridges, hospitals, infrastructure are built to withstand extreme weather and flooding that is often driven by some of the impacts we are seeing of climate change. So as the Federal Government is allocating tens of billions of dollars to help these communities to rebuild, I think it is essential that we make sound investments that will withstand the extreme weather.

So, the simple question I have really quick is as the Army Corps continues to work to help communities rebuild from natural disasters, how important do you think it is to have strong flood
risk management standards that take into account climate science and the sea level rise that is happening?

General Semonite. Senator, I think it is very important. We are right in the middle of doing Puerto Rico and the Virgins right now, when you talk about resiliency there, so we have a lot of experience. But it does go back to we can’t afford to continue to build products that are not going to be able to take care of what nature could throw at us. So, we have to be able to put that in accordance with the current authorities we have and to be able to continue to think of the deep fight. When we do plans and we do projects, we factor in how is that going to react when it comes to climate change or sea level rise.

Senator Booker. Thank you very much, sir. Appreciate your comments.

Thank you, Mr. Chairman.

Senator Barrasso. Thank you, Senator Booker.

Senator Fischer.

Senator Fischer. Thank you, Mr. Chairman.

And thank you, Mr. Fisher and General, for being here today.

As I have mentioned many times before in this Committee, Nebraska operates a very unique system with our 23 natural resource districts, which are based on river basin boundaries rather than county lines. Our NRDs are governed by locally
elected boards, enabling them to be effective in addressing local water concerns. Many times the NRDs are the local partners for a lot of the Corps-related projects.

However, due to the Corps’ inability to operate in a time-efficient manner, these local partners are faced with astronomical costs and delayed projects. For example, one NRD has been working for the past eight years to secure a 408 permit to begin construction of the Missouri River levees that protect Offutt Air Force Base, and currently this NRD has spent nearly $5 million to secure this permit. Even more concerning is that the NRD has worked with six different permit review teams from the Omaha District Corps office. After eight very painful years and millions of dollars spent, the original levee design has changed very little. Consequently, the permitting process has added very little safety or resiliency value to the project. The delay in acquiring the 408 permit has undoubtedly added millions of dollars to the construction costs of the project, but, more importantly, it has placed Offutt Air Force Base, its personnel, private citizens, private and public property, and billions of dollars in infrastructure at an unnecessary risk because the levees are not yet rehabilitated.

General, I will ask you first. In your professional experience, is this delay acceptable? And will you commit to me today to expedite approval of the 408 permit for this project?
General Semonite. Senator, I will, not just for that project. What we have done in the last year, and I said this in my opening statement, I hate to say it, but over the last hundreds of years we have migrated a lot of stuff to Washington, D.C. that probably didn’t need to come here. The real true technical experts, a lot of times, are the local districts and those divisions. So, a 408 process, it got to the point where it was so backlogged that this caused us to be able to look at ourselves and say how can we delegate in power this down to the generals and the colonels that we hire to do this job. So, since I have talked to you last, the 408 program has completely been delegated back to the division and the district; there will be no 408 approvals in Washington, D.C.

I don’t know the exact process on the Offutt one, but I will find out, ma’am.

Senator Fischer. But, sir, my issue here is with the district office, it is with the district office that has had six different permit review teams, that has spent eight years in reviewing this project that has cost local taxpayers $5 million. And we can’t get this done for Offutt Air Force Base, which is home to the 55th Wing, which is home to STRATCOM, to build levees to protect this base. That is my issue, sir, it is with the local district.

General Semonite. Okay, so, ma’am, I have to find out. I
don’t know exactly this deal. Most of the time the districts do have to send it up the chain. It starts at the district, but it had to come to Corps Headquarters, so we have delegated it down. We know Offutt very well; we are building STRATCOM’s headquarters. We are very committed to the Air Force contingent back at Offutt, so I will find out what the status of this permit is. And unless there is something that we are doing that is either not in the realm of engineering science, there should be no reason why we can’t find a solution to that permit. I don’t know the details, so I can’t promise you we will approve it, but we will certainly get rapid resolution.

It goes back to this whole streamlining thing. We should not have to take years to be able to resolve permits.

Senator Fischer. And I would appreciate that, because it affects the base, it affects national security, it affects our local communities. So, I would appreciate hearing from you soon on that, sir. Thank you.

Mr. Fisher, how do you believe the Administration can assure us that the Corps is operating effectively and efficiently so that projects can be budgeted for completion and finished to provide for the public health and safety of the communities and citizens that these projects were designed to protect?

Mr. Fisher. Sure. Thank you. As has been discussed today
by various members and myself, we recognize the construction
backlog, and this Administration certainly wants to look at the
innovative ways that the General has mentioned, contributed
funds, other partnerships that, when we authorize something in a
WRDA bill, that we can ultimately get to a completed project on
those things.

Senator Fischer. Well, thank you. And I would ask if you
will commit to me that the Corps is going to review Section 408
permitting process and determine if it is needed for flood
control projects. And once the Corps has made this
determination, will you provide an update to this Committee?

Mr. Fisher. Yes, I can commit to that, working with the
General on the 408 process and filing any report and
communication that is needed.

Senator Fischer. Thank you. I look forward to hearing
from both of you.

Thank you.

Senator Barrasso. Senator Cardin.

Senator Cardin. Thank you, Mr. Chairman.

Secretary Fisher, thank you for your testimony,
particularly looking for innovative ways. We all recognize that
the backlog and resources are a mismatch here, and we have to
find ways to move forward on very important projects for our
communities and for our economy.
General Semonite, I appreciate very much your leadership in so many ways working with us. I will just mention what Senator Carper mentioned on beach renourishment. We talked about adapting to the realities of climate. The beach renourishments have saved millions and millions of dollars in property losses and has been our first offense against these storms. So, there are many reasons why we are pleased that we have been able to keep, actually we are a little ahead of schedule on the beach renourishments on the Atlantic coast of Delmarva, so thank you very much for your help in all of that.

I want to talk about one of the highest priorities in Maryland. You are not going to be surprised that I am going to mention Mid Bay. But I want to go back to Poplar Island, which was innovative at the time. We had never had a project that would be a location for dredge material, but would also be an environmental restoration where we would have a win-win situation that would not only allow us to move forward with dredging that was desperately needed for the economics of the shipping lanes, but also give us a plus for the community, which helped their local economy as well. So, it was a win-win situation and Poplar Island has been very, very successful thanks to the courage of Congress to authorize this and the Corps to move forward with it.

The challenge is that we now need a second location, and
Mid Bay is the second location within the Chesapeake Bay for the location of dredge materials. It has been authorized by Congress in 2014, so we are on schedule.

Just to follow up on Senator Fischer’s point about time, we need to be fully operational by 2029, and, in order to meet that date, we can’t lose any of the dates moving forward. And we are concerned because it has not been budgeted for the first phase of preconstruction engineering, which is a matter of concern to all of us.

So my question to you is will you work with this Committee to do whatever we need to do within the next WRDA authorization to make sure Mid Bay stays on schedule? We understand funding issues, but stays on schedule from the point of view of congressional authorization?

General Semonite. Sir, I will talk a little bit about the project and I will let Mr. Fisher talk perhaps about the funding and the future commitments.

First of all, you and I met here a couple months ago. We had to get a revalidation on that done. The dredge material management plan has been approved since you and I met. We do have now the report. I will sign by the 31st of January basically a revised report that goes back to Mr. Fisher that validates that particular thing.

I think for all of the members in the Committee, I am
concerned about dredge material management, and we, as we continue in this Nation to deepen harbors or to keep these harbors maintained, that material management is getting harder and harder to deal with. And if we don’t think of innovative ways like Poplar Island and Mid Bay to be able to find environmentally sensitive ways of doing it, we are going to end up shutting down some of these harbors, and we can’t afford that to happen. I was the guy that briefed Mid Bay back in 2007, when we came in here to say that this was a good project.

So, right now, what will happen is that report that I will sign will go to Mr. Fisher. It has to be cleared by OMB. If that happens and Mr. Fisher has the ability to be able to put PED money against it without any additional authority, he has that under his control. So, we think that from a Corps perspective we are on plan to continue with the process.

And I will let Mr. Fisher talk about any of the funding commitments.

Mr. Fisher. So, yes, we certainly want to work, when it gets to my desk, for there to be no surprises. I want to be able to work hand-in-hand with the General so that when it does come to our office we can expedite and help the project move forward and meet those 2029 and other milestones and deadlines you referenced.

General Semonite. I think, Senator Cardin, the other thing
is we are using Mid Bay and Poplar Island as ways around the whole Nation that we should be doing some of this. We are looking at an option right now in the Upper Mississippi River. We have some other options we are working out in California. This ability to be able to find an ecological restoration, but done on dredge material, is a smart way to go. We did the same thing in New York Harbor and Jamaica Bay, so it is the way. The Corps has to think out of the box to solve two problems with one.

Senator Cardin. Well, General, I very much appreciate your leadership on these types of projects.

Mr. Secretary, I just urge you that in the OMB-type bureaucracies, these types of programs are not well understood, and unless we have an advocate, it can be delayed, and when it is delayed it looks like it could become an earmark in Congress rather than an authorized program by Congress. We have those hurdles we have to overcome. So, all I am suggesting is to stay on schedule, and I appreciate your willingness to do everything we can to stay on schedule. It does require us to be innovative to make sure that the formal requirements have been met so that the funding can continue and we don’t run into a process obstacle from OMB, so we need your help.

Thank you, Mr. Chairman.

Senator Barrasso. Thank you, Senator Cardin.
Senator Ernst.

Senator Ernst. Thank you, Mr. Chair.

Gentlemen, thank you for being here today.

General Semonite, always good to see you. I am sure you know the topic that I am going to bring up this morning, the Cedar Rapids Flood Mitigation Project.

Mr. Fisher, you and the General have both made references to value back to the Nation when it comes to the benefit-cost ratio. But when you talk about value back to the Nation, I think when you are referring to the BCR, you often, or what that brings to mind is the fact that those places with higher property values are worth much more to our Nation than the rural areas where property values are lower. And, since 2008, Cedar Rapids has experienced two major floods that have cost the city billions, billions of dollars in damages and lost economic activity.

Despite being authorized in WRRDA 2014 and mentioned for prioritization in 2016, the project has not received any federal funding due to the low benefit-cost ratio that results from the city’s relatively low property values. The Cedar Rapids Flood Project is $600 million in total; the Federal cost share of that is only $73 million. So, the city is bearing the brunt of that project, while the Federal Government would have $73 million to contribute.
Now, going back to the BCR, the metric, as currently calculated, is very problematic. The lives and livelihoods of the people in Cedar Rapids are just as important as those of individuals who reside in those coastal areas with higher property values. A solution is needed to ensure that all areas of the Country have a fair shot when competing for these important Corps projects.

So, General Semonite, we have talked about this before. I am going to refer back to the December confirmation of R.D. James, the President’s nominee to be Assistant Secretary of the Army for Civil Works. He committed to working with me and OMB to modify the BCR metrics in a timely manner, and I am going to quote his words: “It’s not right that there’s people in this Country who will never ever get any type of water infrastructure project under the current BCR analysis.”

Do you agree with Mr. James’s assertion, and do you also agree that the metrics need to be changed?

General Semonite. Ma’am, I personally do agree that the metrics need to be changed. We can’t do one-size-fits-all or one-metric-fits-all. Your specific area is one where the local people out there saved lives because they were very, very aggressive in getting that flood fighting done, and we were lucky, to a degree, that somebody didn’t get hurt out there. But I think we have to go back in and take a look at this. I am
not convinced, though, that under the current metric we are going to see the light of day on this one. So, this is where we have to do something different, either change the metric or go back and somehow reformulate the project to be able to figure out how can we get the cost down and maybe bring the risk down. I had a meeting with my guys yesterday to say we have to be able to figure out how to solve this somehow. Just plugging through and beating our head against the wall on this one is not going to make progress, so we either have to change the metric or go back in and actually say is there some way that we can redesign it to come into a benefit-cost ratio that is in line with current OMB metrics.

Senator Ernst. I appreciate that, and I will hold you to that because we do have to make progress on this. We have been through a number of flood events there and we will probably have another flood event before we get this solved.

In fiscal year 2017, five projects received funding under the human safety exception, five, human safety exception, which gives the Corps discretion to fund projects with low BCRs if it deems there is a significant risk to human safety. Four of the five projects were in California. Four of five. And in a December 2016 letter to me, the Corps indicated that the decisions are determined on a case-by-case basis.

Can you shed some light on this process, because, as we
have discussed in this Committee before, there does seem to be a black hole of decision-making? Can you talk to me about the process and how those decisions are arrived?

General Semonite. So, ma’am, I am not exactly an expert on this, but I did talk to Mr. Fisher yesterday. I think we both have to take a look at this process and go back, especially on that particular project, is there the ability to be able to apply this human exemption back on that particular project and revisit that decision, if nothing else, based on some of the other ones we have learned, and based on the fact that I don’t necessarily see this thing happening the normal way. So, unless we are innovative in thinking what other tool in our kit bag can we use to get it authorized, then I don’t see it happening, so this is where I think we both have to take a hard look at it.

You and I have talked several times on this. I would love to come back and say here is the realm of what, if anything, the Committee needs to do to have this one see the light of day.

Senator Ernst. We will have you back, sir. You are welcome in my office any time, and I look forward to having those discussions.

General Semonite. Thanks, ma’am.

Senator Ernst. Thank you very much.

Senator Barrasso. Thank you, Senator Ernst.

Senator Whitehouse.
Senator Whitehouse. Thank you, Chairman.

Gentlemen, thank you very much for being here. We look forward to working with you as we do our next WRDA bill. And although this is not always a bipartisan Committee in the area of interest to you, it is a bipartisan Committee, and I hope you take advantage of that fact.

One of the predicaments that coastal States like mine face is the sea level rising along our shores. NOAA has recently increased its predictions for global sea level rise and, in certain areas, particularly in my State, because of the way the ocean flows and works, that actually gets amplified a little bit further.

Let me ask you first if the Army Corps has any quarrel or dispute with those NOAA sea level rise projections.

General Semonite. Sir, I am not sure that I am smart enough to know on how they apply to Rhode Island right now. I don’t think, fundamentally, we have any --

Senator Whitehouse. Well, we will take care of that for you. We have very good people working on it.

General Semonite. And, sir, I will ask the New England District as well so that we can take a look. I know you are specifically concerned about --

Senator Whitehouse. Do you have any quarrel or dispute with the NOAA general sea level rise findings that they have
proposed?

General Semonite. No, sir.

Senator Whitehouse. So, you will be taking that information into account in your planning of coastal projects?

General Semonite. We take that, along with any other technical information that is out there, sir. Our expectation is to make sure we are using the best science available.

Senator Whitehouse. And particularly where you are dealing with long-lived projects, it is important, is it not, to understand the conditions that those projects will be facing all the way through their useful life, and not just at the point of completion of the construction?

General Semonite. Fox Point is a great example of that, sir.

Senator Whitehouse. Yes. We are probably going to have to rebuild all that at some point fairly soon, and we have people in Rhode Island starting to look at how we wall off the City of Providence from much heightened storms.

We have an additional problem, which is that the FEMA projections for coastal flooding have, over and over, been proved very badly wrong. In Houston and in Florida they just had some pretty harsh experience of what the flooding actually looked like compared to what FEMA maps had predicted. In Rhode Island we have very good work that has been done at the local
level looking into how FEMA got its maps done with huge anomalies like multi-foot discrepancies on either side of one of the transects that gets done, which is obviously impossible in nature, and yet was obviously satisfying to the contractors who did this work for FEMA.

So, I think we have two problems. One, as members of Congress, we need to make sure that FEMA’s mapping gets up to speed and that communities are not being asked to rely on false information and bad mapping estimates. But the second thing is we have you to work with. And to the extent that you, in your projections, are relying on those same FEMA maps, and not trying to improve or supplement them, your work faces the same problem that we face.

How are you addressing this problem of FEMA’s erroneous coastal flood mapping?

General Semonite. Sir, I probably don’t have a good answer for that on the fact that I don’t think we lean just on FEMA. I think we look at the rest of that science out there. NOAA is another very, very reliable source. I don’t think we are 100 percent reliable on FEMA. We take that information and obviously there are going to be different interpretations of it, but if you need to, I will certainly come back and give you a better answer specifically with Rhode Island. But right now I think when it goes back to you have two things you addressed.
One is future projects we have to look at, how do we make sure we wrap sea level rise and climate change into that; and then the other one existing infrastructure. That barrier is a 1958 barrier, so a lot has changed in the last 50 years. How do we make sure --

Senator Whitehouse. What used to be adequate is not adequate.

General Semonite. And then is there a modification we can make? Do we need to figure out how to study it? But you are right on the point. We have to be able to figure the requirement and the risk before we can start putting an engineering solution in.

Senator Whitehouse. I am down to 30 seconds, so let me ask my last question, which is that in your fiscal year 2018 budget, the Army Corps of Engineers designates $1.32 billion for what the Army Corps describes as inland projects. And the fiscal year 2018 budget defines $46 million in proposed expenditure for what it defines as coastal projects. That is a 30:1 ratio favoring inland projects over coastal projects. Should that be the case? And particularly should that be the case in the light of the dramatic changes that coastal States are seeing?

Mr. Fisher. Yes, Senator, I will take that question.

Senator Whitehouse. Because we are on the losing end of 30:1 in Rhode Island.
Mr. Fisher. Right. I understand that. I appreciate the concern. The budget amount, fiscal year 2018 budget amount is appropriate given the President’s fiscal priorities and the Corps of Engineers’ Civil Works responsibilities, and the need to reduce the federal deficit, as well. But I appreciate the concern. I will certainly look into that discrepancy between inland versus coastal and look forward to working with you and this Committee further on that and what the rationale behind that might be.

Senator Whitehouse. Thank you. Thirty to 1 seems like a lot, particularly given what is happening along our coasts. Thank you, sir.

Senator Barrasso. Senator Shelby.

Senator Shelby. Thank you, Mr. Chairman.

Secretary Fisher, thank you. We are hoping before long you will only have one hat to wear, because it is difficult to wear two, but you are doing a good job of it. But I know that you are in the policy area; I know what your job is, to approve things. I don’t know if you have been to Alabama or not, but I know you are aware of our problems down there in Mobile and what we are trying to do, and that is what counts. But I know the General has; he has spent a lot of time in the Mobile area and he knows, so I want to address some of my questions to him.

General, we have been through this before and I have talked
with you about this, but bring us up to date on your view of
where we are going, where we are as far as deepening the Port of
Mobile from 45 feet, say, to 50 feet, and also widening it,
because a lot of us believe that is a game-changer down there.

General Semonite. Senator, I think you are the one that
said your top 10 priorities are Mobile Harbor.

Senator Shelby. Number one.

General Semonite. Yes, sir. So, we certainly understand
that. There is a lot of potential in Mobile Harbor, as there
are in a lot of these other coastal ports that continue to help
the Nation’s economy. Right now we are right in the middle of a
GRR, a re-evaluation report. As you and I have talked, I would
love to be able to get that done earlier. Our current estimate
is to have that done by November 19, which will then set that up
for Mr. Fisher to be able to approve PED money, which is that
design, which means that theoretically you could continue to see
a lot of progress going.

I would love to try to push that to the left. I will talk
to the district commander and see what we can do to accelerate
that. On the other hand, because we want to make sure we have a
good project, I would rather get it done right and have all of
the right stuff, than try to do it too fast.

Senator Shelby. We want you to do it right.

General Semonite. So, we are committed to meet that
November 19 date. If there is ever a time where I think we can cheat that to the left and do it the right way, we will certainly do that.

Senator Shelby. In your judgment, what will deepening a port from 45 feet to 50 feet do for the port itself, as far as - -

General Semonite. Well, one of the things is that businesses are going to go where they are going to be able to get the best return on value and they are going to make the most money, so they have to come into a port these days and be what we call light-loaded. In other words, if they can’t use the full 100 percent optimization of that particular ship, then that means that port is less viable. They are going to go somewhere else. And we are deepening a lot of ports certainly in the Gulf and in the East Coast. So that means that at some point you are going to find that businesses would be more likely to come to Mobile if they can get that extra 5 feet of depth.

Now, I think the other part of that is that we also have to make sure that our commitment back to protecting the environment is done right, and Mobile Harbor, sir, you need to know, is one of the case studies of the right way to do that. We are using that dredge material management and we are taking that to either put in to be able to recreate wetlands on the east side of the bay or even to put that back on one of the --
Senator Shelby. In the Dauphin Island area.

General Semonite. The Dauphin Island, as well. And there are some differing opinions as to the deepening of the harbor with respect to perhaps erosion on Dauphin Harbor. We aren’t necessarily in agreement with that particular opinion. We think you can effectively deepen Mobile Harbor without causing undue environmental damage.

Senator Shelby. Well, we appreciate your work there, and also Secretary Fisher’s. I am going to continue to work with you because, as you said, this is my number one priority, and I believe it is the number one priority for the region there.

Thank you.

General Semonite. Thank you, Senator.

Senator Barrasso. Senator Van Hollen.

Senator Van Hollen. Thank you, Mr. Chairman.

Mr. Fisher, General Semonite, good to be with you today. I just have a couple questions following up on some of the issues Senator Cardin raised.

General Semonite, you have been in a number of meetings on that issue with respect to the Mid Chesapeake Bay project, which is essential for creating an ecosystem with the dredge material from the channel to keep the Port of Baltimore competitive. And my understanding is that both of you said that you would get the predesign funding ready so that we could also get to the
construction funding within the current authorization window, is that correct?

Mr. Fisher. I don’t believe we committed to the PED funding; it was certainly mentioned and we will certainly take a look at it as that moves from General Semonite’s office to mine, absolutely.

General Semonite. Senator, just a quick update. The material management plan has been done since we talked last. Right now, I will sign a validation of that particular project by the 31st of January and give it to Mr. Fisher. It does have to clear OMB. Senator Cardin and I just talked about that, but the bottom line is, once that clears, then it is the Secretary’s decision to go ahead and put PED. But we don’t need any additional authority so we can start right into the planning and design.

Senator Van Hollen. So you can move forward with that aspect of it before you get the authorization.

General Semonite. It does have to clear OMB, as I understand it.

Senator Van Hollen. I just want to make sure I understand the timeline and which budget submission we are talking about here. So, this ultimately has to be in the President’s budget submission, is that correct?

Mr. Fisher. Yes, the PED funding would need to be in that
submission. And like the General mentioned, I will certainly commit to working with OMB so that they are aware of this and they are getting everything they need from the Corps and my office as well.

Senator Van Hollen. Okay. Have you had any conversations with OMB about this project? Either of you gentlemen.

Mr. Fisher. To date, no, I have not.

General Semonite. I have not, sir, not on that one.

Senator Van Hollen. Okay. If I could just ask a broader question with respect to the Harbor Maintenance Trust Fund. I don’t know what input, if any, either of you have on those issues. Is that something you are very involved with, the expenditure of those funds?

Mr. Fisher. Yes. We budget for those, yes.

Senator Van Hollen. So my question is, given the current backlog, I believe it is about $56 billion in backlog in the Harbor Maintenance Fund and $3.24 billion in the Operation and Maintenance Fund, the $56 billion being the shortfall in the construction and $3.2 billion in the Operation and Maintenance Fund. Do you believe that the Congress should direct more of the funds from that account into harbor maintenance at this point in time in order to make sure that we have the dredging that we need to make sure our ports are competitive?

Mr. Fisher. I would say that while additional funds can
certainly be expended for critical dredging and maintenance of coastal harbors and channels, the current budget, the fiscal year 2018 budget proposed by the President is the appropriate amount given the President’s fiscal priorities and the responsibilities of the Corps’ Civil Works program. But I do look forward to working further with you and this Committee to find innovative ways to use that trust fund and get the most out of it.

Senator Van Hollen. Well, do you agree with the assessment that there is a $56 billion backlog in construction projects in harbor maintenance?

Mr. Fisher. I don’t know the number, sir, but I am very aware that there is a backlog.

Senator Van Hollen. And the purpose of these fees that go into a fund are for harbor maintenance, isn’t that the case?

Mr. Fisher. Yes.

Senator Van Hollen. So how would you justify diverting funds that were raised for that specific purpose from people who were essentially paying a user fee, how can you justify diverting those funds for other purposes within the budget?

Mr. Fisher. Sir, I don’t believe we would try to justify that. We want to be able to use the funds for that purpose which they were intended.

Senator Van Hollen. So you would support an effort to make
sure that more of the funds that are raised into the Harbor Maintenance Fund go for that purpose, is that correct?

Mr. Fisher. Yes.

Senator Van Hollen. Okay. Thank you.

Thank you, Mr. Chairman.

Senator Barrasso. Senator Boozman.

Senator Boozman. Thank you, Mr. Chairman. I just want to take a second to echo what Senator Inhofe said earlier about the importance of the McClellan-Kerr Waterway for not only the State of Arkansas and the State of Oklahoma, but the entire region and the whole system put together.

Lieutenant General Semonite, certainly, I agree with you, I think all of us agree with you that we simply don’t have enough appropriations to properly address America’s crumbling water infrastructure, and infrastructure in general. Because of our debt and deficit, though, we are certainly in need of innovative funding mechanisms. One of the tools that the Corps has at its disposal is the WIFIA program that was established in WRRDA 2014. While the USEPA, Environmental Protection Agency, has published guidance, received appropriations, and issued a request for projects to begin implementing the EPA WIFIA program, the Corps WIFIA program has no published guidance or federal funding. The final WIFIA authorization of appropriations for the Corps and the EPA is 2019. The WIFIA
program has great leveraging power to make taxpayer money go further, while also incentivizing the private sector to get involved in public-private partnerships, the P3s that we are hearing so much about right now.

Can you tell me does the Corps not view the WIFIA program as a viable option to address infrastructure? Also, what steps has the Corps taking to get the WIFIA program off the ground, if any?

I will take either one of you. Mr. Secretary?

Mr. Fisher. This is probably going to be one of these questions I have to get back to you on. I need to get a fuller brief. I know that the Corps has a lot of federally owned and operated projects. When you take a look at how WIFIA applies in that instance, as well as what you reference, P3s, we need to determine what actions are going to be required to foster that public-private partnership investment as well. So, if I can, I will have to come back to you on that.

Senator Boozman. It didn’t sound like it is a priority.

General Semonite. Senator, one of the things that we are doing, and it goes both for P3 and WIFIA, is that we have to make sure we have that policy. The House did pass guidance that the Corps should slow down on any P3s, actually banned us from doing P3s, other than Fargo-Moorhead, which is a project in North Dakota, until we establish policy. And we certainly
understand we have to have some degree of policy. We are, right now, drafting that WIFIA policy inside of our headquarters. We will get with the Secretary to work through that. I do think we have to continue to work down this road because, as you said, we have to find innovative ways of doing that.

And I think this is something that both the Secretary and I could come back to give you, to the Committee or you personally, an update of where we are going; what are the milestones, what do we hope to achieve, when are we going to get it done.

Senator Boozman. No, I understand. The House also, in 2014, passed the WIFIA program, and earlier you talked about on time, on budget; and there is a huge lag here. And that is one of the problems that we have with the bureaucracy, is this kind of thing.

In WRRDA 2014 and the Act of 2016, Congress attempted to advance projects by allowing non-federal entities to fund projects by expanding reimbursement opportunities and credit. In December 2016, the GAO reported that non-federal sponsors are leading $4 billion in Corps-related studies and projects. From that $4 billion, the Federal Government has reimbursed $400 million to cover some of the federal costs related to those projects.

Lieutenant General Semonite, what can non-federal entities expect from the Federal Government regarding credit and
reimbursement opportunities? Also, what else can the Federal Government do to incentivize non-federal entities to get involved in more projects?

General Semonite. So, I will answer it in two ways. One is that we do have a relatively robust program for non-federal sponsors to be able to put money in, and we call those either contributed funds or accelerated funds or advanced funds, and there are different rules on each type of those three. But that way, if a stakeholder wants to go faster, they can put in their money. And a lot of times they will advance those monies up front so we can start that project, get it going, and then give them credit down the road. And that program works pretty well and we have streamlined our ability to receive funds, and you have given us some extra flexibility to be able to do that.

I think the other thing we have to look at is it goes back to this point of if a stakeholder is ready to put more funds in, then, like I said earlier, that should make that benefit-cost ratio revised, because the actual cost to the Federal Government is now much less. And if you have a project that is close, if it is 2 to 2.3 or something and somewhere there is that extra money put in, that would advise that mass, so now you are going to be able to get that across an OMB metric. And although I think the metric ought to be changed, if in fact it is not, at least it shows if a stakeholder puts skin in the game and puts
money and contributions in, now, then, that will incentivize the process and be able to get those projects approved.

So, I think this is goes back to this benefit-cost ratio versus revised benefit-cost ratio, and you and I have talked about this in the past, sir; how do we continue to work with OMB to find some innovative ways to be able to really bring down the burden on the Federal Government.

Senator Boozman. Thank you very much, and we do appreciate your hard work.

Senator Barrasso. Thank you, Senator Boozman.

Senator Capito.

Senator Capito. Thank you all for your testimony.

Thank you, Mr. Chairman.

I was going to ask you about the WIFIA program, but my colleague from Arkansas did a good job in talking about that, and hopefully we will get some further information. Certainly, as we look at an infrastructure package coming in from the President, there has been a lot of talk about modeling things after TIFIA, which is what WIFIA was modeled after. But if, for some reason, there are obstacles there, I think we need to make sure that we know exactly what they are and how to avoid those in terms of a vibrant infrastructure package.

I am from West Virginia. We have the Mon River locks and the Ohio River locks, obviously, I would suppose, some of the
oldest locks and dams in the Country, particularly on the commercial side. And we have seen over the years how one large project like Olmsted can crowd out all of the other projects. So I guess, just briefly, what is the status of that project? And, in the future, do you see or how do we prevent a high profile, say, port project crowding out all of the other projects, because there is so much need, and how do you prioritize that as you are moving through to avoid this kind of situation in the future?

General Semonite. So, the Olmsted project is going very well. We are on plan to be able to continue to bring that to closure here in the next year. I think that that will allow some additional investment in other construction accounts in the years out there.

One of the challenges, and maybe one of the successes, and the Committee has done quite well at it, if in fact there is a special, I will call it a bin of projects, how do you somehow, as opposed to having everything rack and stack, ma’am, against the overall bin, how do you carve out some?

A good example is refuge harbors. Right now there is a certain bin that we put a certain amount of money into on small harbors that would never compete well against a large harbor. So, if there are some special categories that we could then carve out to be able to make sure they do compete within that
I think that is a pretty good model to be able to say big projects are going to compete on their own. But where we really do have equities out in some of these niche capabilities that just can’t compete because of the benefit-cost ratio, we ought to look at that. And it really goes back to this idea you have given us a lot of tools. Have we used those to the best of our advantage to figure out every single way we can try to get some of these projects approved? It doesn’t mean more money, necessarily, but it means that they will be able to compete better against the existing funds that are available.

Senator Capito. I would say, too, for the areas most affected of the smaller projects, the impacts can be as great, maybe not economic impacts as measurable, but ability to grow, live, and prosper in a certain region certainly are critical to having those infrastructure. And a lot of times you can get a bigger bang for your buck, too, because they are less expensive.

General Semonite. Sure.

Senator Capito. You know, I think one thing that was a great thing that we did in the last WRDA bill, I think it was the WRDA bill, when the revenue from diesel fuel went up and Congress increased that tax from 20 cents a gallon to 29 cents a gallon. Now, I can tell you I have been in Congress for probably longer than some other people would want me to be, but I can count on one hand how many people have come in my office
and said we will help pay for this. You know, they weren’t looking for the Federal Government to actually be the be-all and the end-all, but we will take this is so important to us, it is such an economic driver for us that raising the tax on something we use every day as a critical part of our expenses is something that we need to do and we are willing to do.

So, I think if we can look for other ways to do that, you know, in general, in the infrastructure package I think would probably be a good idea.

Streamlining of the regulatory process, do you have a dashboard now where you have all your different agencies weighing in, or would that concept be good for you as we move forward in some of these larger projects, where the stakeholders can find out exactly where they are, when they are, and how they expect to get where they want to be, whether it is you, EPA, Fish and Wildlife, Forest Service? You can imagine how confusing it is for all of the different agencies to figure out, particularly on the NEPA review issue.

General Semonite. So, Senator, I did talk in the beginning. We are beginning to streamlining these, and a lot of that does go back to delegating that authority down to a level that has the capacity and the competency to be able to do that, so we are seeing progress there.

We have a series of different dashboards. I would like to
think that they are responsive back out to the public. But we are doing about 80,000 permits now, so you can come back onboard, see the status out there. Sometimes, though, if it is not responsive enough, we want to be able to have them call into the district to find out what is out there. Sometimes the applicant doesn’t put in all the right things, so they might think they have supplied everything; we might still be waiting on something; and that is where the dialogue has to go back.

I think we have to continue to look at more innovative ways from an IT perspective of how can we be more transparent and be able to be more responsive back out there. So, I am not sure exactly, if in fact we are meeting the need. If not, I will certainly try to change what we have to do. But we are committed to trying to give responsive feedback to permit applicants so they know what the status of their permits are.

Senator Capito. Well, just anecdotally, because I have you in front of me, I would like to say that the Huntington Corps and the Pittsburgh Corps are great to work with; they have been very responsive with our office, and I would just like to give them a pat on the back. Thank you.

General Semonite. Thanks, ma’am.

Senator Barrasso. Thank you, Senator Capito.

Senator Gillibrand.

Senator Gillibrand. Thank you, Mr. Chairman.
General Semonite, I am concerned about the progress of the Hudson-Raritan Estuary Ecosystem Restoration Study that is currently being undertaken by the Army Corps. This comprehensive study will result in environmental restoration projects across the New York-New Jersey region. Section 1322 of the 2006 Water Infrastructure Improvements for the Nation Act directed the Army Corps to expedite completion of this study. However, it continues to be delayed due to bureaucratic hurdles and restrictive Army Corps policies that make it difficult to complete large, complex studies such as this.

Will the Army Corps prioritize completing this study as soon as possible?

General Semonite. Senator, we will. I would like to come and probably have our guys lay that out for you and be able to make sure we give you more detail on exactly what some of the challenges are there, but we are committed to that study. It is an important area. There is risk there, without a doubt, and we do want to continue to be as aggressive as we can in bringing this study to closure.

Senator Gillibrand. Concerns have been raised to my office that completing the Hudson-Raritan Feasibility Study has been made difficult by the Army Corps’ 3x3x3 Rule, which requires feasibility studies to be completed in three years, cost up to $3 million, and involve all three levels of Corps review
throughout the study process.

What flexibility does the Army Corps have to adapt study requirements for large, complete projects, like the Hudson-Raritan study, that cannot conform to the restrictions of the 3x3x3 Rule because of their size and scope?

General Semonite. So, Senator, like all rules, we put that in effect to try to be aggressive, to try to be able to bring down our timelines, find out ways of being more economical studies and doing them quicker. Unfortunately, some of these large studies do have to take more than $3 million and more than three years, so we have a process. The 2-star general sitting behind me, he is the guy that approves that authority to be able to waive that, so we certainly have the authority to have some of these more complicated studies like that go longer, and we certainly have no problem doing that because we want to do that science right and get it done appropriately.

Senator Gillibrand. So, do you believe you have the flexibility you need to ensure that these types of studies which have federal funding and a non-federal partner are not unnecessarily delayed due to arbitrary bureaucratic constraints?

General Semonite. I certainly think I have all that flexibility. If I find out later that something is wrong on this particular one, I will get back with you, ma’am, but right now I don’t think we have our hands tied at all.
Senator Gillibrand. Great.

I am also troubled by the pace of recovery for Puerto Rico and, in particular, the length of time it has taken to restore power. In particular, I have heard horror stories about the situation on the Island of Vieques and the dire situation that exists there due to, in large part, the lack of electricity.

What is the current status of the Army Corps’ work overseeing the restoration of the power grid on the Island of Vieques?

General Semonite. So, Senator, I have taken five trips to Puerto Rico in the last seven weeks. I know Puerto Rico very, very well. We have about 2,000 people down there working through Christmas, working through the holidays. Today we have about 80 percent of the load restored. That is not necessarily people; that is the load on how much has historically been out there.

Just Puerto Rico alone, a very, very quick data point, 62,000 power poles; 3,100 miles of cable. That all had to be brought in. The problem was this was after Texas got hit, Florida got hit, and the Virgin Islands got hit. So, the demand on the electrical system to be able to provide that material, it took us a while to do that.

Right now, our goal is to get 50 percent by the end of November. We met that goal. Seventy-five percent by the end of
January. We are at 80 percent today and it is only the 17th of January. I committed to the governor to try to get 95 percent of that power up by the end of February, but, Senator, unfortunately, there are some parts, on top of those mountains, where there are 5 or 10 houses way down at the top of the ridgeline. The electricity for those 5 houses on the side of a cliff. So, it could be as late as May for the last 5 percent. I want to make sure I clarify because I don’t want to over-promise. I would much rather deliver this as fast as we could. But we are all in to fixing the grid in Puerto Rico. This is normally not a Corps of Engineers mission, but we are honored to step up to be able to try to get it, and we are 100 percent committed to get electricity on as fast as possible.

I tell the governor every single day you have a right to be frustrated down there because everybody deserves power, but it is not because the Corps of Engineers is not going as fast as we possibly can.

Senator Gillibrand. Have you been able to build in any resiliency, or are you just doing patchwork?

General Semonite. So, the way that the Stafford Act is there is response and then there is recovery, so basically we are going back in with all new materials and we are putting it to code and to standard. I hate to say it, some of the lines we are replacing actually had two or three storms’ worth of damage,
but they were just leaning over, so all the trees fell on top of the lines, all the lines come out. So now we are putting all of it back up. We, by the Stafford Act, are putting it back up to the original standard unless we have FEMA’s flexibility in some areas to be able to make it more resilient. But that is something where the guidance we have gotten from Mr. Long is to be able to basically rebuild the existing standard, but with new equipment to code. That alone will give us more resiliency.

Senator Gillibrand. We have been trying to amend those rules so that, actually, you can build in resiliency.

General Semonite. Yes, ma’am.

Senator Gillibrand. Because it is kind of absurd to say, oh, well, it was built in 1970; we are just going to put it back to 1970 standards. Like that is a waste of money. So, I urge you to ask Congress for the ability to, when you do do these projects, build them to state-of-the-art with resiliency enhanced so we are not there after the next storm. We have a bipartisan bill to do that. We are hoping to be able to get votes on that bill, but that is the kind of work I would like you to aspire to do in the future.

General Semonite. Yes, Senator. We have testified several times and we certainly are more than willing to do that if we have the flexibility. Good example, what kind of pole do you put in? If we can put in a stronger pole, but still underneath
the authorities we have, we certainly want to do that.

Senator Gillibrand. And you have not been able to do that for Puerto Rico?

General Semonite. We have when it comes to materials. We have better materials in there. And, like I said, a lot of areas where they were built, it was never built to code. This is an antiquated system. I did the grid in Iraq in 2004. Parts of Puerto Rico were worse than what I saw in Iraq in 2004.

Senator Gillibrand. Thank you, sir.

Thank you.

Senator Barrasso. Thank you, Senator Gillibrand.

Senator Wicker.

Senator Wicker. Mr. Chairman, let me just note for the record how much I appreciate Senator Gillibrand mentioning the Island of Vieques and the situation in Puerto Rico.

And, General, I don’t have a question about that, but those listening should understand that there is bipartisan support for doing as much as we can as quickly as possible to alleviate the suffering there.

You know, this is about America’s water infrastructure needs and challenges, and, you know, I don’t know how well it is understood among the public, until we have a disaster, how important our Nation’s infrastructure is and how vital the Corps of Engineers is until you have an event, and then we wonder why
it hasn’t all been taken care of beforehand. And I particularly would direct our witnesses’ attention to the Mississippi River Tributaries Program, which has been around since 1928 and is still not completed after all these years.

If you read or go back and re-read the book “Rising Tide” by John Barry and understand the absolute devastation that took place to our Country, that rose all the way up to a president of the United States and a secretary of commerce and millions and millions of people, until you go back and remember what could happen if we didn’t have the Corps there, if we didn’t have programs like the MR&T project, we don’t fully understand this.

Some people out in the Country like to call this pork barrel or talk about projects as if they are somebody’s pet project or pet program. This MR&T program and the other infrastructure that we have all around the Country is just vital to people’s lives, to our ability to earn a living and to recover from those disasters that we know are coming.

You know, I am told that there is a 54:1 benefit-to-cost ratio for what we have done so far in the Mississippi River and Tributaries Project. We have invested over $14 billion, a lot of money, but we have prevented over $800 billion in damages.

Lieutenant General, those figures are pretty accurate, aren’t they?

General Semonite. Sir, you are exactly right. I mean,
this is about 88 percent done. We have continued to put about
$350 million into this, but there is still more work to get
done. And I have been down to that project several times and
the investment of proactive up-front certainly pays dividends
when it comes to a storm coming back through, the ability to
alleviate risk.

Senator Wicker. These are real benefits, real disasters,
real damages that haven’t happened to people because we are able
to do this. And yet we have this annual fight; it doesn’t
matter if it is a Republican administration or a Democratic
administration. In 2015, the administration requested $245
million; the appropriators and the Congress ratifying upped that
to $302 million. In 2016, the administration came in, and this
was the Obama Administration, $225 million requested; the
Congress upped that to $345 million. 2017 request, $220
million; that appropriation turned out to be raised from 220 to
$368 million. And the request this year is $253 million. We
will have to increase that. It makes us look like spendthrifts.

I am not on the committee anymore, I was back in another
day and another job I had, but it just seems to me that I am not
even going to ask you, Mr. Fisher, to justify this, because I
think it would be unfair to you. Let me just say that this
investment that we have made, that the Lieutenant General spoke
about, that has gotten us to the point of 88 percent and saved
all these lives and all this heartache, is really money that we have appropriated over and above what administration after administration after administration has been requesting.

I will just leave that statement out there. I will let you comment, if you would like.

Also, let me just say we have to fix this Mat Sinking Unit problem, and it has to come out of O&M.

General, if we do what we need to do on the Mat Sinking Unit, it is going to take quite a chunk out of O&M, is that correct?

General Semonite. It is, Senator. About four months ago I was on that Mat Sinking Unit working one of those machines, you know, tying the mats together. That is an antiquated system. It looks like something that came off a farm back in 1952.

Senator Wicker. And it keeps the levees from washing away.

General Semonite. Yes, sir, it does. But, on the other hand, you can’t just continue to keep putting Band-Aids on it. So, we have a long-term plan, a funding schedule. I mean, it is in the order of $20 million to $30 million a year, but we would, at least myself personally, would continue to recommend to the Committee to keep funding in that so we can continue to keep that critical -- we have to replace this thing. So that is what that funding schedule does, is continue to get the new unit back up and running and getting it onboard. We are in the design
right now, which is good. We have some money this year, we are doing a prototype, but we see great value in a replacement for the Mat Sinking Unit.

Senator Wicker. Well, you know, Mr. Chairman, I have gone way over. It is not really a very sexy topic, but when the water is up and the soil starts churning on the other side of that levee, and you start worrying about the levee failing, it gets pretty serious to millions and millions of Americans.

Thank you for your indulgence, Mr. Chairman.

Senator Barrasso. Thank you, Senator Wicker.

Senator Markey.

Senator Markey. Thank you, Mr. Chairman, very much.

Welcome. Thank you both for your service.

General, the Sagamore and the Bourne Bridges are the only two roads connecting Cape Cod to Massachusetts. I don’t have to tell you that at all. But, regrettably, these two 80-year-old bridges, which are crucial evacuation routes since it is the only way off, are structurally deficient. The Corps of Engineers maintains the bridges and is currently conducting a study to evaluate whether they need to be replaced.

General, as an agency charged with reducing risks from disaster, how does the Corps of Engineers rehabilitate bridges that serve an essential public safety and commercial function, and would it be helpful if Congress created an authority that
dedicates federal funding for the replacement or restoration of these types of assets and then allows the Corps to divest the bridges to be able to able and willing non-federal partners?

General Semonite. Senator, I strongly agree with you that we have to do something different on bridging. We have 897 bridges. Some of these are small ones across like the intercoastal waterway. But those two you talked about, and I was on those four months ago, as well as about five gigantic bridges we have in Pennsylvania, are big, big bills. Right now, per bridge, each one of those, if we rehab it, it is going to be $300 million; if we replace it, it is going to be about $400 million. So, you are talking about an $800 million deficit.

Now, the question is does the Federal Government need to be able to keep bridges in our inventory. I would recommend that we have to go down this path of finding a way to divest those. It would be great if the State came in and took those over, but the State is probably going to say we will only do that once you bring them up to a given standard.

So, we want to work with the Committee to try to find ways, and it goes back to critical infrastructure and water. If we can figure out how to somehow bring down some of the bills that we have for these old bridges, then we are able to use that same money, assuming Congress keeps appropriating that, into other areas that might be a better return investment back for the
Nation.

Senator Markey. And I agree with you, and that is why federal money is so important; we have that leverage going into a negotiation on an issue like that.

General Semonite. And early on I said what about innovative approaches. This goes back to where is a local or State interest to be able to step up to take some of these things over. We just have a lot of inventory in the Federal Government. I would love to see some of this divested back into locals that maybe can take care of it and budget for it better than we can.

Senator Markey. Thank you, sir.

I have always supported environmentally responsible shoreline protection projects where sand is pumped onto beaches to protect against storm surge and coastal erosion, but when the Town of Sandwich, Massachusetts attempted to use sand from the federal Cape Cod Canal that otherwise would be dumped in the ocean to protect their community, federal requirements became a major obstacle. The U.S. Army Corps required the homeowners to provide easement, ceding away their coastal property line forever, even though the sand from this beneficial use project would only remain on the beach for five years. Ultimately, the town was unable to use federal funding for this essential shoreline protection project, which, to me, makes no sense at
So, General, should we explore opportunities to make the Corps project requirements more flexible for these beneficial use of dredge material projects? Shouldn’t we find better ways to ensure that these requirements are not preventing the Corps from using quality sediment for beach nourishment and aquatic restoration?

General Semonite. So, Senator, I am a big fan of considering dredge material as a resource as regional sediment management. There is a lot of places that we can put this type sand to do exactly what you are talking about. There is current policy, though, that if in fact we use beach renourishment, then at some given point there are local homeowners’ association there and access back to that beach.

I am not specifically aware of the project in Sandwich. I would like to think that somewhere we could have figured out a solution somewhere, but, if nothing else, we will certainly find out and I will talk to the New England District and figure out what happened and how can we somehow figure out, without perhaps challenging the policy that is a national policy, how could we have found a better way to use that sand. Taking it out to the ocean, sir, is a waste of a good resource.

Senator Markey. It is a waste of a good resource, and saying you have to give up permanent in order to get something
that only lasts for five years is something that ultimately, then, reach stalemate, so that is not good.

Finally, if I may, for some communities in Massachusetts, Wellfleet, Plymouth, New Bedford, Essex, Gloucester, Newburyport, the waterways are filling up with so much sand that vessels cannot reliably and safely pass, which harms commerce, recreation, and safety. Many of these waterways are federally owned, and it is the U.S. Army Corps of Engineers’ responsibility to dredge these waterways, and that is why I believe that we should use all of the resources in the Harbor Maintenance Trust Fund for these important dredging projects, instead of raiding that pot of vital funding for deficit reduction, as we are doing now. And I hope that we can address this issue in the upcoming water resources bill.

Maybe, if you could, General, just give us a few comments on that issue in terms of the resources you need in order to get the job done in communities like Wellfleet and others that I just mentioned.

General Semonite. Sir, I will just hit on the current dredging. We clearly have a lot more requirements right now than we have funds, so we do have to prioritize; and we have a relatively deliberate formula as to where can we dredge and where we can’t. I will let Mr. Fisher address the Harbor Maintenance Trust Fund, but we definitely have requirements that
exceed our capabilities, and that means in some areas we have not been able to dredge, and some of those rivers have almost gone into a caretaker status because we have not been able to do what we need to do to protect the federal waterways.

Mr. Fisher. Sir, I would just add I am very aware of the balance, the large balance in the Trust Fund, as you mentioned, and we certainly want to make sure that those fees that are collected are targeted to the improvements they were intended to be.

Senator Markey. Because these communities are really under stress. And it is a nationwide issue, so the more that we can work on that project maybe in the infrastructure bill, I think the better off we would be for the economy of our Country, as well, for the growth that is possible, because you are dealing with these central issues.

Thank you, Mr. Chairman.

Senator Barrasso. Thank you, Senator Markey.

Senator Carper.

Senator Carper. Not every member of our Committee, in their comments and questions, have raised the issue of our failure to appropriate the dollars that are needed to enable the Army Corps of Engineers to do your job. It is not even close. It is not even close.

I mentioned the estimates of the American Association of
Port Authorities. The underfunding in port infrastructure alone cited by them, I guess last year, $65 billion in investment over the next 10 years. Actually, if we are interested in a nurturing environment, includes the work that we do in infrastructure on our rivers, ports, levees, so forth. Sixty-five billion dollars over the next decade they say is needed.

And our friends over at the American Society of Civil Engineers, their infrastructure report card, which just came out, tells an even more unsettling story; not $65 billion, but their report card estimated, I think, about $162 billion in investments that are needed in dams, levees, inland waterways, and so forth. A hundred and sixty-two billion.

And what do we do in response to this? I think we have a budget for the Army Corps of Engineers that hovers just under $5 billion. And we are looking at these kinds of needs. We know that we need them. We know that if we invest money in these ways, it will actually grow our economy, strengthen our economy, make us safer and smarter. And we are considering a budget. I don’t know if we are going to actually pass a real budget this week or another some kind of short-term funding resolution, but the Administration is asking for, I want to say, tens of billions of dollars more money for defense spending. The U.S. already spends more, Mr. Chairman, I am told, then the next 10 nations combined, and we are going to add to that. We are going
to be spending more than the next 12 nations combined.

The President just signed legislation into law last month that reduces revenues for running the Government by $1.5 trillion to $2 trillion over the next 10 years, and we sit all around here today bemoaning the fact that the Army Corps doesn’t have the money they need, doesn’t have the resources they need. Well, there is a good reason why not: we are not providing it. We are not providing it. In this case the Administration is not asking for it and we are not providing money. I think it is shameful. I think it is shameful.

We ask you and the folks that work for you to do more than any humans could actually do. Maybe no one else feels a sense of shame on this Committee. I do. The old comic strip character, Pogo, we see the problem, and it is us. We are a big part of the problem.

I want to come back to Puerto Rico. General Semonite, you and I have talked about Puerto Rico before. I appreciate what you said in response to Senator Gillibrand’s question. We think of Puerto Rico as Puerto Rico. This is north, this is south, this is east, and this is west, and most of the generating capacity for electricity is in the south, as I recall. Most of the generating capacity is down here to the south. Not all of it, but a lot of it is diesel. They bring it up from Venezuela and places like that in the south. They spend, I think, and the
General can correct me if I am wrong, 27 cents per kilowatt hour in our State, so we spend maybe a quarter of that. And yet somehow they are supposed to be able to compete economically.

The question about rebuilding to code and that sort of thing, I was largely encouraged by what you said on that, but I think if you have most of the generating capacity for electricity down here in the south and most of the people live up here in the north, and in between you have mountains, and we are spending a fair amount of money trying to get the electricity from the south to the north, why don’t we bring down some liquid natural gas in big ships from the north, which would be the U.S., and build some new generating capacity? It would bring down the cost of electricity dramatically and the folks in Puerto Rico could actually clean up their air and their environment as well.

And I know this is not all on the Army Corps, the Department of Energy has requirements here and expectations here, but my dad used to say use some common sense. That would be, in my judgment, using some common sense.

But for folks in Puerto Rico who are still struggling, I am glad that we are still concerned. We want them to know that we are still concerned. I hope to talk to Governor Rosello tomorrow about this. But for the work that has been done on their behalf in some cases, without a lot of thanks, we want to
say thanks to those people who have been helping and the businesses that have been helped.

The last thing I want to mention, if I could, Mr. Chairman, I mentioned earlier in my statement, Mr. Fisher and General, that the people of Delaware have had just a wonderful relationship for years with the Philadelphia Office of the Army Corps of Engineers. We have been very, very grateful for the work that they do and their responsiveness.

My staff tells me that sometimes they experience frustration in being able to obtain timely information from the Corps Headquarters staff and other regions. Maybe you don’t have the folks or maybe you are just not aware of this, but I said give me an example, and they could give me several examples. They have written them down here. I am not going to take the time now, I am out of time, to go through them, but I just want to flag it and I will follow with a QFR, question for the record, and I will actually give you some specifics here.

But that is it for me, folks, and we thank you for being here.

Ryan, when I became governor of Delaware, they asked me, if I had a magic wand, what would I do with my magic wand. I had just been elected; hadn’t even been sworn in. They said what would you like to use with a magic wand, and I was with Mike Castle. He had been governor; he was just about to become a
congressman. We were just trading places; I had been a congressman and was about to become governor. And I said, if I had a magic wand as a new governor, I think I would like to have a magic wand that would enable me to make sure that every kid growing up in my State has at least one good nurturing, mentoring, caring parent with high expectations for that child, at least one. Hopefully two, but at least one.

I was inaugurated as governor a couple weeks later and I got in my office, opened up my desk where I looked for the magic wand, but didn’t find it. Didn’t find it. And we have done a whole lot of things in eight years to try to make sure that we are doing what we need to do to strengthen families. That was what we did for eight years, strengthened families; basic building block of our society.

You are new. When you go look in your office drawer and you are looking around for a magic wand, you probably could use one that would cough up about $200 billion in infrastructure improvements over the next decade. That would be about $20 billion a year. I don’t know that we can do that, but, Mr. Chairman, we have to do better than this. We have to do better than this if we are serious. I am serious; I know you are as well. We have to do better than this.

General Semonite. Senator Carper, if I could just make one comment. You said earlier about how is the Committee doing on
funding. I just want to make sure that both of you understand our appreciation for the debt that you do give us. Regardless of what comes in the budget, that extra money, we distribute that through the workplan. It is not billions and billions and billions of dollars, but I will tell you what, we go very, very hard to make sure we are finding the best ways to use that; and that extra money, last year it was about $1.2 billion, it pays an awful lot of dividends back into some of these projects, so I personally want to thank you for that extra commitment.

Senator Carper. You are welcome. Thank you.

Senator Barrasso. And, General, if you can’t find a magic wand, we are hoping that you can find some scissors to cut through some of the government red tape that I hear about from communities, as well, trying to solve these problems.

Is there anything that you need in terms of potential statutory authorities that could help improve the Corps’ and local communities’ ability to complete work on water resource infrastructure in a more efficient and maybe cost-effective way? Anything you can think of we can do for you?

General Semonite. Senator, I will be honest with you. I have never been in a Senator’s or Representative’s office where they haven’t offered that same thing; what can we do to give you some advice. We are certainly looking at how we can do it. We have done a lot of work in the last couple months of figuring
out what are some of those things we can ask for you. I think the single biggest issue is probably that benefit-cost ratio. How can we somehow get some degree of relief there? And you and I talked about this last year. How do we make sure that that money is going to the right place even if in fact the arbitrary metric doesn’t necessarily apply? So, I think that is where we have to look at some innovative solutions. And, again, we aren’t looking at the pot is going to necessarily get any bigger, but how can we make sure some of those projects that are very, very viable at least compete better for funding.

Senator Barrasso. And following up with a final question for Mr. Fisher, just in terms of ability to complete projects, as opposed to partially built projects and lengthy constructions that drag on and on, I am interested in learning your view on how the Corps can work to help ensure the projects included in any potential WRDA bill are built to completion using kind of efficient funding streams to provide for much of the project funds up-front, rather than every year trying to get additional funding. Anything that you have, any thoughts on that?

Mr. Fisher. I think it would be similar to my answer at the opening of the hearing about the CAP 205 program you referenced. We want to keep using those contributed funds authorities that are out there. We want to look at public-private partnerships and non-federal investment in these things
as a way to innovatively move these projects from WRDA to completion.

Senator Barrasso. It doesn’t look like there are any more questions today, to be asked today, but, as Senator Carper said, he may put in some written questions. Other members may put in some additional questions for the record, so the hearing record is going to remain open for two weeks.

But I want to thank both of you for being here for your testimony and for your time.

The hearing is adjourned.

[Whereupon, at 1:51 p.m. the Committee was adjourned.]