To: Kelly Titensor, Acting Program Manager  
Native American and International Affairs Office

Through: Thomas A. Luebke  
Director, Technical Service Center

From: Mr. Tony L. Wahl, P.E., Hydraulic Engineer  
Hydraulic Investigations and Laboratory Services, Technical Service Center

Subject: Control Number 18-225, International Trip report for Aussois, France

1. **Location:** Aussois, France

2. **Dates of Travel:** December 9-15, 2017

3. **Attendee:** Tony Wahl

4. **Purpose of Trip:** To participate in two workshops on the subject of erosion problems associated with overtopping flow at dams.

5. **Synopsis:** I traveled by air from Denver to Paris overnight, beginning on December 9. On December 10 I traveled by train and taxi to the meeting location at Aussois. The workshops took place on December 11-12 (embankment dams) and December 13-14 (concrete dams and unlined spillways). On the evening of December 14 I traveled by train to Geneva, Switzerland and returned to Denver by air on December 15.

The two workshops I attended were sponsored by the European Commission on Large Dams (EURCOLD) and the French Committee on Dams and Reservoirs (CFBR), and hosted by Electricité de France (EDF), the major producer, distributor and marketer of electricity in France. EDF has considerable hydropower assets and has been a long-time collaborator with Reclamation’s hydraulics laboratory on research related to embankment dam breach modeling, with much of that research coordinated through the CEATI-DSIG (Centre for Energy Advancement through Technological Innovation-Dam Safety Interest Group). EDF provided full funding for my attendance at the workshops. An agenda for the workshops and attendee list is attached.

The first workshop on Monday and Tuesday focused on erosion problems associated with overtopping of embankment dams and dikes (including river and sea levees). On Monday I
presented a summary of the final report of the CEATI-DSIG project on evaluation of computational dam breach models. On Tuesday I gave an impromptu presentation on recent embankment breach tests performed in the summer of 2017 in Reclamation's hydraulics laboratory. One of these tests was of a zoned embankment with a downstream zone composed of well-graded gravel. This was provided to complement a presentation by Dr. Miguel Angel Toledo (Spain) on testing of zoned rockfill dams composed of more uniformly graded gravel.

On Wednesday and Thursday the second workshop was focused on erosion associated with overtopping of concrete dams, and also included several presentations related to rock erosion in unlined spillway chutes. I presented Reclamation's past experience with overtopping flow at Gibson Dam (Montana, 1964) and analysis of potential overtopping flows and abutment armoring needs for other Reclamation dams. I highlighted our interest in the use of photogrammetry to map rock joints and determine changes in rock profiles after significant flow events. Very interesting presentations were made by other workshop participants on recent research related to the hydraulic stream power characteristics of impinging and plunging jet flows, high velocity flow and erosion in unlined spillway chutes, and the forensic investigation of the Oroville Dam spillway chute failure.

Each workshop concluded with open discussions of research needs and potential collaborative research opportunities. I discussed Reclamation research funded for FY2018 on erodibility measurement methods for cohesive embankment soils and high-velocity flow over joints in concrete spillway chutes.

6. **Trip Agenda:** The workshop agendas and a list of attendees are attached.

7. **Benefit to Reclamation:** The workshops provided an opportunity for Reclamation to learn about state-of-the-art techniques for modeling erosion that occurs during overtopping of embankment dams and during high-velocity flows in unlined (rock) spillway chutes. Reclamation research projects will benefit from awareness of and collaboration with other research programs. Two specific opportunities are a collaboration with Belgian researchers developing a large-scale submerged jet erosion test device, and a collaboration with French and British researchers who wish to apply next-generation computational dam breach models to Reclamation's recent zoned embankment breach tests.

8. **Benefit to Traveler:** The traveler gained significant knowledge about new developments in the measurement and prediction of soil erodibility and the modeling of erosion affecting embankments and rock chutes.

9. **Conclusions and Recommendations:** There are numerous organizations in Europe, Australia, and North America that have common interests with Reclamation related to erosion caused by overtopping flow at dams. Communication with workshop attendees should be maintained so that Reclamation's research in these areas can address leading edge problems with a full awareness of accomplishments coming from other countries.

10. **Actions Required:** I will maintain contact with several workshop attendees to share useful data and literature and to develop future research collaborations.
International Workshop on overflowing erosion of dams and dikes
11 – 14th December 2017 - AUSSOIS, FRANCE
Programme and List of attendees
Sunday 10th December
Taxi transfer from Modane railway station to Aussois resort
19:30: Dinner offered at the resort

Monday 11th December
07:30 – 08:15: Breakfast offered at the resort
08:40 – 08:50: Welcome address. J.-R. Courivaud
08:50 – 09:00: Goals of the workshop on embankment dams and dikes overtopping erosion. J.-R. Courivaud
09:00 – 15:30: Session 1: The Dam Owners’ Perspectives: Issues and Engineering Needs
   Moderator: Jean-Robert Courivaud
   09:00 – 09:20: Hydro Quebec perspective (Annick Bigras/Judith Bouchard)
   09:20 – 09:40: Environment Agency perspective (Christabel Mitchell)
   09:40 – 10:00: EDF perspective (Jean-Robert Courivaud)
   10:00 – 10:30: Coffee Break
   10:30 – 10:50: CNR perspective (Christophe Picault)
   10:50 – 11:10: USACE perspective (Scott Shewbridge)
   11:10 – 11:30: Bavarian Environment Agency perspective (Stefan Raab)
   11:30 – 11:50: Flanders agency perspective (Patrik Peeters)
   11:50 – 12:10: SYMADREM perspective (Thibaut Mallet)
   12:10 – 12:30: Rijkswaterstaat perspective, part 1 (Astrid Labrujere)
   12:30 – 12:50: Rijkswaterstaat perspective, part 2 (Wim Kanning)
12:50 – 14:30: Lunch
14:30 – 15:00: UK dam owners’ perspective (Alan Brown)
Answering question n°1: What gaps need to be filled?
15:30: End of session 1
15:30 – 18:00: Session 2: State of the Art – Part 1

Moderator: Stephane Bonelli

15:30 – 16:00: Research performed at ARS-HERU Stillwater: Past, present and future developments (Sherry Hunt)

16:00 – 16:30: Coffee Break

16:30 – 17:00: DSIG project (Tony Wahl, USBR)

17:00 – 17:30: Overtopping erosion of coarse materials embankment dams, a literature review (Mark Morris)

17:30 – 18:00: USACE-ERDC research program (Maureen Corcoran/Johannes Wibowo)

18:00: End of the session 2

19:30: Dinner offered at the resort

Tuesday 12th December

07:30 – 08:15: Breakfast offered at the resort.

08:30 - 15:00: Session 3: State of the Art – Part 2

Moderator: Mark Morris

08:30 – 09:00: Overtopping erosion of clay core zoned embankment dams: experimental and numerical modelling (Miguel Angel Toledo, University of Madrid)

09:00 – 09:30: CIMNE research (Antonia Larese)

09:30 – 10:00: Hydro Quebec research (Judith Bouchard)

10:00 – 10:30: Coffee Break

10:30 – 11:00: NTNU research (Leif Lia)

11:00 – 11:30: IRSTEA research (Stéphane Bonelli)

11:30 – 12:00: EDF/geophy Consult research (Rémi Béguin)

12:00 – 13:30: Lunch

14:00 – 15:00: Synthesis of the state of the art (Stéphane Bonelli, Mark Morris)

Answering question n°1: What gaps need to be filled?

Answering question n°2: Which are the main lines of an international research project to fill these gaps?

15:00: End of Session 3.

15:00 – 15:30: Coffee Break

15:30 – 18:00: Session 4: How Moving Forward?
Moderator: Jean-Robert Courivaud

Come back to question n°1: What gaps need to be filled?

Come back to question n°2: Which are the main lines of an international research project to fill these gaps?

Main focus on question n°3: Which dam owners would be ready to fund such a research project?

18:00 End of the embankment dams and dikes overtopping erosion workshop

19:30: Dinner offered at the resort

21:00 - 22:00 : Social event – Traditional country dance show from the Alps
International Workshop on overflowing erosion of dams and dikes
11-14 December 2017 – Aussois – France - Agenda
Part 2 – Concrete Dams

Wednesday 13rd December

07:15 – 08:00: Breakfast offered at the resort

08:00 – 08:15: Goals of the workshop on concrete dams overtopping erosion. Frédéric Laugier

08:15 – 14:30: Session 5: The Dam Owners’ Perspectives: Issues and Engineering Needs

Moderator: Frederic Laugier

08:15 – 09:00: Key note - Lessons learnt from Oroville dam 2017 flood (John France)

09:00 – 09:15: Verbund perspective (Florian Landstorfer)

09:15 – 09:30: Alpiq perspective (Raphael Leroy)

09:30 – 09:45: EDP perspective (Irene Fernandes)

09:45 - 10:00: Questions

10:00 – 10:30: Coffee Break

10:30 – 10:45: SHEM perspective (G. Desperoux)

10:45 – 11:00 EDF perspective (Frederic Laugier)

11:00 – 11:15: Uniper and Swedish perspective perspective (Carl-Oscar Nilsson)

11:15 – 11:30: Norwegian perspective (Leif Lia)

11:30 – 11:45: British Dam Society perspective (Alan Brown)

11:45 - 12:00: Questions

12:00 – 12:15: Vietnamese perspective (Michel Ho Ta Kanh)

12:15 – 12:30: Hydro Quebec perspective (Marco Quirion)

12:30 – 12:45: USACE perspective (Maureen Corcoran)

12:45 – 13:00: USBR perspective (Tony Wahl)

13:00 - 13:15: Questions

13:15 – 14:30: Lunch

14:30 – 14:45: Synthesis of dam owner’s perspectives. Frederic Laugier

14:45: End of session 5
14:45 – 17:45: Session 6: State of the Art – Part 1

*Moderator: George Annandale*

14:45 – 15:15: University of Pisa research (Stefano Pagliara)

15:15 – 15:45: University of Cartagena research. Paute Cardenillo and Toachi dams (Luis Castillo / Jose Carrillo)

15:45 – 16:15: EDF research – Hydraulics of nappe flow (Yvan Bercovitz)

**16:15 – 16:45 : Coffee Break**

16:45 – 17:15: USBR research – High velocity flows over spillway chutes (Tony Wahl)


17:45: End of Session 6 part 1

18:00 – 19:30 : Social event – Alpine Aperitif in a 19th century fort (warm cloths suitable!)

19:30: Dinner offered at the resort

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**Thursday 14th December**

07:00 – 08:00: Breakfast offered at the resort

08:00 – 09:30: Session 6: State of the Art – Part 2

*Moderator: George Annandale*

08:00 – 08:30: USACE research - Unlined spillway erosion risk assessment toolbox (Johannes Wibowo)

08:30 – 09:00: EPFL research (Pedro Manso)

09:00 – 09:30: ARTELIA research (Lucie Alazard, Thierry Vincent)

09:30: End of session 6

09:30 – 10:00: Coffee Break

10:00 – 16:00: Session 7: State of the art - Key note lectures

*Moderator: Anton Schleiss / George Annandale*

10:00 –11:00: Key note lecture – George Annandale

11:00 – 12:00: Key note lecture – Steven Pells

12:00 – 13:30: Lunch

13:30 – 14:30: Key note lecture – Michaël George

14:30 –15:30: Key note lecture – Anton Schleiss

15:30: End of session 7

15:30 – 16:00: Coffee Break
16:00 – 18:00: Session 8: How Moving Forward?

**Moderator: John France**

16:00 – 16:30: Synthesis of the state of the art and current developments (Anton Schleiss, George Annandale)

16:30 – 18:00: Discussion

Question n°1: What gaps need to be filled?

Question n°2: Which are the main lines of an international research project to fill these gaps?

Question n°3: Which dam owners would be ready to fund such a research project?

18:00 End of the workshop

19:30: Dinner offered at the resort

**Friday 15th December**

07:30 – 08:30: Breakfast offered at the resort.

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