

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 9 January 2014 FPOM meeting.

The meeting was a teleconference meeting. In attendance:

Last	First	Agency	Office/Mobile	Email
Baus	Doug	USACE-RCC	503-808-3995	<a href="mailto:Douglas.m.baus@usace.army.mil">Douglas.m.baus@usace.army.mil</a>
Benner	Dave	FPC		<a href="mailto:dbenner@fpc.org">dbenner@fpc.org</a>
Bettin	Scott	BPA		<a href="mailto:swbettin@bpa.gov">swbettin@bpa.gov</a>
Bissell	Brian	NWP-BON		<a href="mailto:Brian.m.bissell@usace.army.mil">Brian.m.bissell@usace.army.mil</a>
Conder	Trevor	NOAA		<a href="mailto:Trevor.conder@noaa.gov">Trevor.conder@noaa.gov</a>
Dugger	Carl	NWW-MCN		<a href="mailto:Carl.r.dugger@usace.army.mil">Carl.r.dugger@usace.army.mil</a>
Fielding	Scott	USACE-NWW		<a href="mailto:Scott.d.fielding@usace.army.mil">Scott.d.fielding@usace.army.mil</a>
Fredricks	Gary	NOAA	503-231-6855	<a href="mailto:Gary.fredricks@noaa.gov">Gary.fredricks@noaa.gov</a>
Fone	Ken	NWW		<a href="mailto:Kenneth.r.fone@usace.army.mil">Kenneth.r.fone@usace.army.mil</a>
Hausmann	Ben	NWP-BON	541-374-4598	<a href="mailto:Ben.j.hausmann@usace.army.mil">Ben.j.hausmann@usace.army.mil</a>
Hevlin	Bill	NOAA	503-230-5415	<a href="mailto:Bill.hevlin@noaa.gov">Bill.hevlin@noaa.gov</a>
Klatte	Bern	USACE-NWP	503-808-4318	<a href="mailto:Bernard.a.klatte@usace.army.mil">Bernard.a.klatte@usace.army.mil</a>
Lorz	Tom	CRITFC	503-238-3574	<a href="mailto:lort@critfc.org">lort@critfc.org</a>
Lut	Agnes	BPA		<a href="mailto:axlut@bpa.gov">axlut@bpa.gov</a>
Kiefer	Russ	IDFG	208-334-3791	<a href="mailto:Russ.kiefer@idfg.idaho.gov">Russ.kiefer@idfg.idaho.gov</a>
Kostow	Kathryn	ODFW		<a href="mailto:Kathryn.e.kostow@state.or.us">Kathryn.e.kostow@state.or.us</a>
Mackey	Tammy	USACE-NWP	503-961-5733	<a href="mailto:Tammy.m.mackey@usace.army.mil">Tammy.m.mackey@usace.army.mil</a>
Martinson	Rick	PSMFC		<a href="mailto:rickdm@gorge.net">rickdm@gorge.net</a>
Petersen	Christine	BPA		<a href="mailto:chpetersen@bpa.gov">chpetersen@bpa.gov</a>
Setter	Ann	USACE-NWW	509-527-7125	<a href="mailto:Ann.L.Setter@usace.army.mil">Ann.L.Setter@usace.army.mil</a>
Trachtenbarg	Dave	NWW		<a href="mailto:David.a.trachtenbarg@usace.army.mil">David.a.trachtenbarg@usace.army.mil</a>
Wills	David	USFWS		<a href="mailto:David_wills@fws.gov">David_wills@fws.gov</a>
Wright	Lisa	USACE-RCC	503-808-3943	<a href="mailto:Lisa.S.Wright@usace.army.mil">Lisa.S.Wright@usace.army.mil</a>
VanDyke	Erick	ODFW		<a href="mailto:erick.s.vandyke@state.or.us">erick.s.vandyke@state.or.us</a>
Zyndol	Miro	NWP-JDA	541-506-7860	<a href="mailto:Miroslaw.a.zyndol@usace.army.mil">Miroslaw.a.zyndol@usace.army.mil</a>

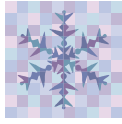
Dugger, Fone, Kiefer, Kostow, Martinson, Trachtenbarg, VanDyke called in.

January birthdays include: Conder and Wright

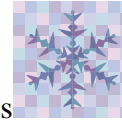
**HAPPY BIRTHDAY!**

### 1. Decisions made at this meeting.

- 1.1. December meeting minutes were approved.
- 1.2. FPOM will take a tour of the dewatered bypass on 23 January.
- 1.3. BON ITS end gate repair. **Fredricks recommends July or August, when spill is still occurring. FPOM generally concurred with that timeframe.**
- 1.4. BON B2CC repairs. Hausmann reported that nothing looked worse than last year. Fredricks just wants an update each winter maintenance season. **Rerечich added that there isn't funding for repairs so they are monitoring. Lorz and Fredricks asked why there isn't CRFM funding. They believe this is something that needs to be funded and long term fixes made.**
- 1.5. BON DSM2 LED update. Hausmann said they are not moving forward with outfitting the entire DSM with LEDs. There are LEDs in U18 though. **Fredricks**



9 January 2014 FPOM meeting minutes



said he doesn't see a reason not to replace all units with LED lights. He noted the change is an improvement.

- 1.6. JDA crest gate failure update. Zyndol reported that the crest gate failed while trying to dewater the JBS. The operators were attempting to lift the gate with water in the channel. **FPOM recommended placing a sign at the controls so everyone knows not to lift the gate if there is water in the channel.** The system was successfully dewatered in mid December.

1.7. Memos of Coordination

- 1.7.1. **13JDA04** JDA-S two-week extension. *Generally approved.*
- 1.7.2. **14JDA01** JDA-N outage to repair VWW. *Approved.* Sooner rather than later. Keep it at night.
- 1.7.3. **14TDA01** Navlock shoal removal. *Tentatively approved.* FPOM (Lorz will confirm no lamprey issues by COB 9 January 2014) didn't have issues with dragging the pile downstream for disposal. They are also ok with the work extending into March.
- 1.7.4. **13LWG22** Fish Screen Slot plugs. *Approved.*

2. The following documents were provided or discussed. Documents may be found at

<http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

- 2.1. *Agenda, Fish Passage O&M Coordination Team.*
- 2.2. *Cooling Water Strainers Lamprey Counts.xls.*
- 2.3. *TDA spill test documents.*
- 2.4. *Coordination/Notification Forms (NWW/NWP)*
- 2.5. *FPP change forms. (NWW/NWP)*

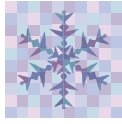
3. Action Items

3.1. NWW Action Items. No action items.

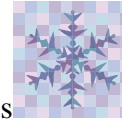
- 3.1.1. [Jan 14] FPOM tour of emergency bypass. **FPOM will take a tour of the dewatered bypass on 23 January. ACTION:** Dugger will set up training for everyone who plans to attend the tour.
- 3.1.2. [Jan 14] MCN emergency backup. **ACTION:** Setter requested the following details from Dugger for the February FPOM: where is the intake, where are the screens that are plugging, and more information about how malfunctions occur.

3.2. NWP Action Items.

- 3.2.1. [Nov 13] BON Forebay elevation and FPP compliance. NOAA recommended: When BON has PH1 priority and the Region is relying on the effective operation of the ITS, then the forebay should have a hard constraint at an elevation greater than 72.5'. Bettin asked if the gates should be closed instead. Fredricks said he would prefer to spill than run PH1. **ACTION:** BON Fisheries will draft a change form to establish minimum forebay elevation to ensure ITS chain gates are meeting FPP criteria.
- 3.2.1.1. Fredricks said this forebay constraint wouldn't be permanent but only during those times when the PH1 is the primary passage route during fish passage season. Bettin said this wouldn't happen. He stated the sill hasn't changed and the research (found in the Kelt study from a few years back) has already been completed. Bettin said the forebay is used to moderate flow.



## 9 January 2014 FPOM meeting minutes



Fredricks said the forebay constraint would be a minimum, not a maximum. He stressed that at times when we are relying on the ITS as the primary downstream passage route, we need to ensure we maintain the 2.5' over the gates which is FPP criteria.

- 3.2.2. [Jan 14] BON Forebay elevation and FPP compliance. **ACTION:** Klatte will find the report and figure out the appropriate elevation from those reports.
- 3.2.3. [Jan 14] BON CI blown diffuser. FPOM recommended putting more weight on a grating over the opening and plan for a permanent fix next winter maintenance period. FPOM asked who the hydraulic engineer is looking at this. **ACTION:** Hausmann will contact the NWP hydraulic engineers and figure out if this is a surge or a constant pressure. The Project will pin down a cover on three sides.
- 3.2.4. [Jan 14] PM-E BON FGE testing. **ACTION:** Rerecich will add more details to the MOC and send out to NWP FFDRWG early next week. A special FFDRWG will be scheduled to work through issues. **STATUS: completed. Comments due by 31 January.**
- 3.2.5. [Jan 14] JDA avian wire O&M manuals. **ACTION:** Klatte will follow up and find out about the manual status.
- 3.2.6. [Jan 14] BON AFF mods. **ACTION:** Rerecich will schedule a task group meeting to discuss the latest developments towards the end of the month.
- 3.2.7. [Jan 14] TDA split flows discussion. **ACTION:** Mackey will coordinate a meeting for late February or March. Location may be TDA, though there was some balking at that by FPOM representatives. **STATUS: tentatively scheduled for 6 March from 0900 -1100 at CRITFC Columbia Room.**

3.3. Action Items completed or to be discussed later in the agenda.

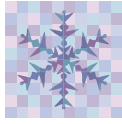
## 4. Updates

### 4.1. NWW Updates

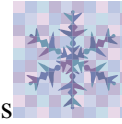
- 4.1.1. MCN Power outage impacts related to passage operations. Dugger reported they would stay with the above ground potable water line. He isn't thrilled with the back-up river water supply so he is pushing for an upgrade on that system. Setter asked for more detail about what Dugger is proposing. Dugger said the river water is the back-up water supply but debris and filter clogging are problems when using that supply. This will remain an update and Fredricks requested the status be added to the weekly reports. Lorz asked where the river water comes from. Dugger thought it might come from an intake in the pump house.

4.1.1.1. **ACTION:** Setter requested the following details from Dugger for the February FPOM: where is the intake, where are the screens that are plugging, and more information about how malfunctions occur.

- 4.1.2. MCN dive. Stop logs were replaced without putting a diver in the water. The NWP dive office brought their ROV and found a rotted grating that fell into the stop log slot after the last stop log was pulled. MCN is now looking at getting its own ROV.



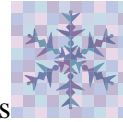
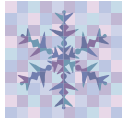
## 9 January 2014 FPOM meeting minutes



- 4.1.3. MCN Fish Pump 2 status. Going through the contracting process now and should be awarded in the next few weeks. This will be updated next month.
- 4.1.4. MCN emergency bypass cleanout and the conditions of steelhead. Fredricks expressed concern about the numbers of fish that were found in the emergency bypass and the condition of those fish. Fredricks said he isn't clear about the conveyance of the fish to the tailrace. The salvaged fish were underneath the elevated JBS channel (the original JBS). The bypass goes down a 20' waterfall into about 3' water. Dugger said he would invite FPOM to the next dewatering so people can see what the bypass looks like. Fredricks asked if FPOM could go in when we are out there for the Avian meeting on 23 January. Dugger said that would be doable. **FPOM will take a tour of the dewatered bypass on 23 January. ACTION: Dugger will set up training for everyone who plans to attend the tour.**
- 4.1.5. LWG further testing JDA ESBSs. Setter gave a brief background on the previous testing. When ESBSs were put in B-slot, it was towards the end of the season and there were only two weeks for testing. FPOM had noted that A-slot showed higher descaling with the normal (LWG) screen. B and C slots looked similar but the sample sizes were small. Setter said LWG would like to do another week of testing in B-slot before moving on to A-slot testing. Bettin asked which unit. Setter said she isn't sure yet, but would like a unit that is expected to be operating. Bettin asked what unit priority is. 2,3,4,6, then any order. LWG screens are in Unit 2 gatewells and 3A. JDA screens are in 3B and C. Setter said she proposes gatewell dipping one day to compare the descaling percentages in gatewells with JDA screens to those with the LWG screens. Bettin said he isn't sure if two units will normally be operated in April due to the snowpack but BPA may be able to help accommodate the gatewell dipping.
- 4.1.6. Warm water resulting in adult delay at LWG (from Kiefer). The LWG OPM is getting the pumps reviewed for anticipated service life. This will be completed later in the spring. This will be a jump off point for the CRFM project. Baus provided a current forecast. It is a dismal outlook for snowpack. When looking at the forecast in smaller increments (April to August) things are looking to be closer to normal.

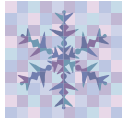
## 4.2. NWP Updates

- 4.2.1. BON Unit 11 update. Hausmann reported there is no change since the last update. Expected return date is late December 2014. Fredricks said Unit 11 is an important unit and we have been without it since 2008. He would like to know what the likelihood is of this unit coming back and being successful.
- 4.2.2. BON Unit 18 updated. Hausmann reported the unit is scheduled to return to service on time (21 February 2014).
- 4.2.3. BON F2 outage. Hausmann provided photos, which were sent via email to FPOM. The wicket gate seals have deteriorated and broken into pieces. New seals are being installed in F2, which extends the outage. F1 will also be replaced which will extend that outage into mid-March. This will result in Washington Shore coming back with one fish unit. Without the seals, water is getting into areas that should not be wet and could cause even more damage.

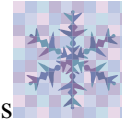


- 4.2.4. BON ITS end gate repair. The end gate is out and parts have not yet arrived. Once the parts arrive, the ITS will need to be taken out of service for a couple of weeks to reinstall. The Project isn't in a hurry so this work may be scheduled around fish passage concerns. Bulkheading the ITS takes about a week. **Fredricks recommends July or August, when spill is still occurring. FPOM generally concurred with that timeframe.**
- 4.2.5. BON FOG repairs. Hausmann reported on the gates currently out for repair. He said they are budgeted for two a year but the Project is only getting to one a year. He asked if this should be a higher priority. FPOM did not believe this should be a higher priority but they did ask that the FOG currently being rehabbed is noted in the weekly report so progress can be tracked.
- 4.2.6. BON B2CC repairs. Hausmann reported that nothing looked worse than last year. Fredricks just wants an update each winter maintenance season. **Rerecich added that there isn't funding for repairs so they are monitoring. Lorz and Fredricks asked why there isn't CRFM funding. They believe this is something that needs to be funded and long term fixes made.** Fredricks suggested stainless liners. Hausmann noted that while that sounds extreme, they are looking at a similar type of liner to run the length. He explained the type of monitoring occurring at the joints. There appears to be movement at the expansion joints so they are tracking that movement and looking at potential fixes.
- 4.2.7. BON DSM2 LED update. Hausmann said they are not moving forward with outfitting the entire DSM with LEDs. There are LEDs in U18 though. **Fredricks said he doesn't see a reason not to replace all units with LED lights. He noted the change is an improvement.**
- 4.2.8. BON ROV update. This was the semi-annual ROV update. In CI, the hatch that had been closed with the concrete block has been blown. The diffuser is now open to the ladder. Hausmann said there wasn't any debris in the surrounding area. Fredricks said the hatch has to be replaced. Commercial divers would be needed. FPOM recommended putting more weight on a grating over the opening and plan for a permanent fix next winter maintenance period. FPOM asked who the hydraulic engineer is looking at this. Hausmann said no one at this time. **ACTION: Hausmann will contact the NWP hydraulic engineers and figure out if this is a surge or a constant pressure. The Project will pin down a cover on three sides.**
- 4.2.9. TDA six foot drift of clams in the AWS. Cordie responded via email that the Project isn't sure what they are going to do yet. There is 15' clearance between the clams and the ceiling of the diffuser. The pile does not extend the entire length of the channel. *Update: Hydraulic Design did not feel that removal of the piles would need to be an urgent activity. Concerns were related to the potential for blockage at the diffusers, creating undesirable*





## 9 January 2014 FPOM meeting minutes



*velocities in the ladder. Luckily the AWS channel diffuser gates are above the AWS floor and sediment is less likely to be transported to the diffuser basin. The capacity of the AWS channel is somewhat reduced by the sediment piles but there appears to be sufficient volume of open space and the upper ladder entrances are rarely needed. Hydraulic Design recommends, if feasible, checking diffuser basins where AWS gates are closer to or flush with the AWS floor since those areas would have a higher potential to accumulate sediment and clam fragments.*

**4.2.10.** JDA status on the missing avian lines. Zyndol reported that in 2013 there were four lines missing. One of the broken and missing lines is one that goes from shore to shore. Still waiting for O&M manuals. The schedule is still to get the wires replaced before the start of fish passage season. Fredricks expressed concern about being able to get the wires replaced if JDA doesn't have the ability to maintain the structure now. **ACTION: Klatte will follow up and find out about the manual status.**

**4.2.11.** JDA crest gate failure update. Zyndol reported that the crest gate failed while trying to dewater the JBS. The operators were attempting to lift the gate with water in the channel. This last happened in 1998. **FPOM recommended placing a sign at the controls so everyone knows not to lift the gate if there is water in the channel.** The system was successfully dewatered in mid December.

**4.2.12.** JDA dewaterings. Everything is going smoothly.

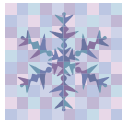
**4.3.** Research/FFDRWG updates. Approval letters, permits, etc located at [www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html)

**4.3.1.** BON Fish Unit trashrake improvements presentation will be at NWP FFDRWG.

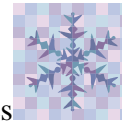
**4.3.2.** BON FGE improvements. Looking to go down the road of flow control. Rerecich provided a draft MOC detailing the plan to go into a unit and take velocity measurements. He needs to get 18-19kcfs through the unit to test the upper limits for flow through the unit. He would like to go into Unit 13, while it is out for digital governor installation in mid April to mid May, and test the unit in late May through early June. This should provide the best time to get the higher flow through the unit. He proposes testing during daylight hours only for four days in one gatewell in one unit. Lorz expressed some concerns about sockeye passage. Rerecich said they may be able to do the higher testing in June, after the historical 90% passage of fish and be able to capture the unit flow needed. Fredricks said he needs time to review the information. He would like to see the 31' msl plate explored more thoroughly. He doesn't worry so much about the hotspots. **ACTION: Rerecich will add more details to the MOC and send out to NWP FFDRWG early next week. A special FFDRWG will be scheduled to work through issues.** Lorz asked if the data collection method has been looked at to see if it is impacting the data. Bettin asked if testing could occur before screens go in.<sup>[g1]</sup> Rerecich said Ebner and the PDT would need to answer those questions. Wills noted that there should be no overlap with the May Spring Creek release.

**4.3.3.** Wills added an item. Spring Creek will release fish on 11 April. **AFTER** the hydrofoil testing has concluded.

**4.4.** RCC update.



## 9 January 2014 FPOM meeting minutes



Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)
LWG	20	32	25
MCN	145	125	113
BON	147	150	125

- 4.5. Lamprey updates. LWG will finish up what didn't get done last winter. Tackley was not available to provide a NWP lamprey update.
- 4.6. Avian. Avian meeting will be held at the MCN Theater on 23 January.
- 4.7. Critical Infrastructure. Fone sent a template to Project Fisheries biologist for feedback.
- 4.8. BPA updates. No issues at this time.

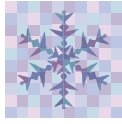
### 5. Coordination/Notification forms (need concurrence).

- 5.1. 13JDA04 JDA-S two-week extension. **Generally approved.** Zyndol presented the justification for the proposed AWS flow while JDA-S is out of service. He noted the AWS output would be about 5% of the total river at that time of year. Fredricks said he would prefer to see the spill start just before daylight, maybe up to two hours, and continue for 12 hours. He doesn't mind it quitting early. Conder recommended using the same table at BON. Bettin asked what success looks like. Fredricks said this is an appropriate action when your main ladder is down, to try to provide attraction to a lesser used ladder. Bettin would like to start lower and work up when triggers are met. Fredricks would rather start high and work down if appropriate. There were many questions about the schedule. Mackey reported there had been no new updates to the schedule. Bettin asked if JDA could work on the weekends to get the JDA-S back earlier. The goal will be to return the JDA-S to FPP criteria as soon as possible.
- 5.2. 14JDA01 JDA-N outage to repair VWV. **Approved.** Sooner rather than later. Keep it at night.
- 5.3. 14TDA01 Navlock shoal removal. **Tentatively approved.** FPOM (Lorz will confirm no lamprey issues by COB 9 January 2014) didn't have issues with dragging the pile downstream for disposal. They are also ok with the work extending into March.
- 5.4. 13LWG22 Fish Screen Slot plugs. **Approved.**

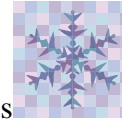
### 6. TDA split flows discussion. FPOM discussed the questions needing answers. A meeting will be scheduled for February or March. **ACTION: Mackey will coordinate a meeting for late February or March. Location may be TDA, though there was some balking at that by FPOM representatives.**

- 6.1. **Data needs include:** Is the criteria for BON appropriate for TDA? What level of spill is needed to pull fish to TDA-N? What is the capacity of the TDA fishways?
- 6.2. There is a change form with language similar to BON in the queue. Rerecich asked if this is a research test. Fredricks said it would be good to test, to see if the spill could move fish. Even if fish numbers aren't high, we could still do a test. Bettin asked if the trigger is based on just Chinook. FPOM clarified the BON trigger counts all fish since this is a ladder density concern, not just a specific species. Conder asked if we should be looking at JDA as well. Fredricks said TDA and BON primarily have the potential for ladder density issues.

### 7. Fish Passage Plan: The Draft 2014 FPP and Change Forms website is at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2014/changes/index.html>. All change forms reviewed to date have been posted. See the "Production Schedule & Deadlines" document for a



## 9 January 2014 FPOM meeting minutes



timeline of events and due dates for change forms to be included the printed version of the 2014 FPP:

- Appendix A (Special Project Operations and Studies) sections will be drafted by NWW and NWP as soon as final study designs and operations are finalized (via FFDRWG and/or FPOM), and are due to Wright by mid-February for inclusion in the final print version of the 2014 FPP.

### 8. Potential 2014 FPP changes.

- 8.1. Fredricks suggested including a calendar of dates when specific actions are scheduled to occur.
- 8.2. Kiefer said he will be proposing leveling spill at IHR and proposing uniform pattern at LMN so we do not spill less than 30% of the river when TDG requires a limit to spill. He figures he can have the change forms ready by the end of December.

### 9. Task Group Updates.

- 9.1. Avian task group. Chaired by NWW. Team members include: Cordie, Dugger, Fone, Fredricks, Hausmann, Madson, Setter, Skidmore, Trachtenbarg, Zorich, and Zyndol. **Next meeting is 23 January 2014 at MCN.** Setter said there would be a new FPP appendix that goes Project by Project and what each does for hazing and potential triggers. The team may have speakers come in to talk about how they address avian issues.
- 9.2. Sea Lion task group. (Stansell). Team members include: Conder, Cordie, Fredricks, Hausmann, Mackey, J. Skidmore, Whiteaker, Van der Leeuw. The States have the option of removing up to 92 individuals. SCA interns are on-site and will start monitoring beginning the week of 12 January. FFU protocol will be taken to Willamette Falls for identification of individuals by ODFW there. Stellers are not yet on the list for removal.
- 9.3. AFF mods (Rerecich). Team members include: Benner, Fredricks, Lorz, Mackey, Meyer, Rerecich, Royer, Stephenson, Traylor, and Whiteaker. Team met on 20 August. Appendix G will be modified to reflect the recommended raking level and the recommended water elevation. Money is available to do some work. Planning to remove the plating at the bottom of the trashrake and take measurements with the reduced plating with and without the baffle. FPOM will be invited to observe the measurements. Fredricks asked that Rerecich keep Meyer informed. Rerecich provided photos for FPOM to review. Rerecich said there isn't enough money to notch the baffle; it will be in or out. He will look at measuring the flow when the exit bulkhead is partially closed (creates an orifice at the exit). The test lamprey flume will have the shield cut off to allow more access in the lab. **ACTION: Rerecich will schedule a task group meeting to discuss the latest developments towards the end of the month.**

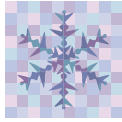
### 10. Calendar items/ next FPOM agenda items. (Check the CY14 on the website).

- 10.1. 9 January. FPOM meeting at CRITFC.
- 10.2. 20 January. MLK holiday.
- 10.3. 22 January. FPP meeting. NWP in the morning. NWW in the afternoon.
- 10.4. 23 January. Avian team meeting at MCN.

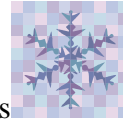
### 11. Other

- 11.1. Fredricks requested the FPC annual report be reviewed by FPOM.





9 January 2014 FPOM meeting minutes



- 11.2.** BON Ops change form. FPOM will need to elevate this issue to get a consensus. Respective RIOG reps will need to be contacted.