

Biology Committee Draft Agenda
July 11-12, 2011

Country Inn and Suites, 4343 N Airport Way, Denver, Colorado, 303/375-1105

Monday, July 11

CONVENE: 10:30 a.m.

1. Review/modify agenda (Trammell; 5 min)
2. Hydrology update (Mohrman, all; 30 min) – *Jana will review spring flows; Committee members and others are invited to share/discuss field observations from this high flow year.*
3. Aerial photos (Mohrman; 30 min) – *The Committee will discuss if we want the photos “stitched together” as was done with the [2008 imagery](#) and what portions should be geo-referenced. (Jana hopes to send cost information to the Committee in advance of the meeting). See table of reaches flows in 2008 and 2011 (Attachment 2). The Committee also will review the draft SOW (please refer to 6/1/11 e-mail from Jana Mohrman to Biology Committee and subsequent replies) and discuss specific projects to utilize the data.*

LUNCH – 1 hour

4. Review of draft FY 2012-2013 work plan – *Remainder of the day with a break for the next agenda item when Randy Hampton arrives. Please refer to 12-13 draft scopes of work at <http://www.coloradoriverrecovery.org/documents-publications/work-plan-documents/project-scopes-of-work.html> and 6/20/11 fws-coloriver listserver posting (with spreadsheet) by Angela Kantola.*
5. I&E Update (Hampton; 10 min) – *Randy Hampton, the Program’s new Information & Education Committee chair, will talk about that Committee’s work.*

ADJOURN 5:00 p.m.

Tuesday, July 12

CONVENE: 8:00 a.m.

- (4) Draft FY 2012-2013 work plan review, continued.
6. Recent endangered fish captures in the San Juan arm of Lake Powell (Krissy Wilson; 15 min) – *In light of these captures (see Attachment 3), the Committee will discuss if we also should survey Lake Powell’s Colorado River arm. From a recovery perspective, it may be significant if endangered fish are spawning there (as they have in Lake Mead). Critical habitat in Powell extends to the Dirty Devil. Sampling the Colorado River arm would be considerably easier than the remote San Juan arm).*

LUNCH – 1 hour

7. Review of draft final reports (45 min)
 - a. Bestgen et al., Floodplain synthesis/22f – *Draft forwarded to the Committee by Angela Kantola on 6/21/11.*
 - b. Price River – *Draft sent to the Committee by Tom Chart on 6/22/11.*
8. Review reports due list (All; 10 min) – *Angela Kantola will e-mail the Committee an updated list in advance of the meeting.*
9. Larval fish presence as trigger for Flaming Gorge flows (Speas; 30 min) – *The group will discuss using the presence of larval fish in the Green River (versus the Yampa peak) as the trigger for Flaming Gorge spring flows. (This item is intentionally placed after review of the draft Bestgen et al., Floodplain synthesis/22f report.)*
10. Tusher Wash (Czapla; 20 min) – *Please see item #7 in the assignments list (Attachment 1)*
11. Next meeting/webinar/or conference call (All; 5 min) – *Agenda items will include:*
 - *Review of White River flow recommendations*
 - *Review of sediment report*
12. Review previous meeting assignments (see Attachment 1) (All; 20 min)
13. Consent items: Review and approve [May 13, 2011, webinar summary](#): *As this is a consent item, Committee members are to communicate any items of concern to Angela Kantola in advance of the meeting.*

ADJOURN 3:00 p.m.

Attachment 1: Assignments
(Asterisked items also on meeting agenda)

1. The **Program Director's office** will work with **CDOW** and **Aaron Webber** on the potential for designing a permeable, hydrologically-stable (gravel?) berm to prevent northern pike access to the oxbow slough at RM 151 on the Yampa, and then clean it out once and for all.
 - *10/30/08: CDOW has contacted the property owners of the RM 151 backwater, but hasn't been able to meet with them yet. Mark Wernke from Reclamation is willing to take a look at the property with CDOW. A fairly long berm would be required (>3,000') and we'll need to determine the best type (more permanent configurations could be very expensive).*
 - *1/15/09: Tom Nesler said they plan to get engineers develop specs/estimates this spring for something like a 10-year berm structure; the next step will be to find funding (perhaps as a habitat project through GOCO). This would be the first of three or four such projects. Tom Pitts suggested that if the Program provides some matching funds (annual or capital), it might improve the probability of getting GOCO money. Tom also suggested that if we have a project in the hopper, we might be able to compete for end-of-year Reclamation funds.*
 - *2/10/09: the Program Director's office considers this a high priority and will contribute funds, if available (see revised FY09 budget).*
 - *2/20/09: Recovery Program funds likely available; CDOW working to get engineers on the ground; Nesler considering different approaches (berm, fill the oxbow, etc.).*
 - *4/20/09: Tom Nesler said they've met with the landowner and Reclamation engineers will do an onsite survey as soon as the snow melts.*
 - *1/5/10: Project deferred indefinitely; Reclamation cautions that the lesson from the Butch Craig floodplain site is to be very careful before considering modifying habitats. Based on the channel dynamics in this area of the Yampa River, it would be unwise to construct an impervious dike at the mouth of this backwater.*
 - *1/14/10: The Committee discussed other options to eliminate spawning in this area; the **Program Director's office** will provide Mark's trip report to the Committee and work with CDOW to outline options for Committee discussion at the next meeting (options could include: make the entrance too shallow for adults; a dike set back instead of right at the river; direct removal/net sets; piscicides, etc.)*
 - *2/22/10: Program Director's office provided Mark's report.*
 - *3/10/10: **CDOW** will work with Reclamation to flesh out their gravel proposal and review additional options (e.g., plant eradication, barriers, etc.). This will be on the May 6-7, 2010 Committee agenda.*
 - *5/6/10: Sherm Hebein said **Reclamation** will conduct a site visit with **CDOW** in July 2010.*
 - *8/18/10: **Sherm** hopes to schedule a visit after the landowner cuts the grass in the next 2 weeks.*

2. 3/11/11: Harry Crockett provided a list of habitats CDOW would like to work on (attachment 3 to [March 1-2, 2011 BC meeting summary](#)). A rapidly eroding bank at the Yampa SWA is the highest priority, but CDOW can't access funds to stabilize it until July 1. **Harry** and **Dave Speas** will talk with Brent Uilenberg about the possibility of getting capital funds; **Harry** will follow up with CDOW to make sure they could move forward with the temporary fix this year. **CDOW** also will look to see if other funds might be available. Other items on the list may be considered after a synthesis of the northern pike data.

- *5/2/11: Sherm Hebein at CDOW found funding and the bank stabilization project at Yampa SWA was completed on April 13, 2011, just prior to rapidly-increasing flows. Billy Atkinson reported that he believes the project was successful and that we will not see further bank erosion in this particular stretch, and potentially alleviate connectivity to the adjacent pond system. See photos on next page. CDOW will do more permanent work on this Yampa SWA site later this year. Harry clarified that in an exceptionally high water year like this, there will still be sheetflow over the site from upstream, but hopefully the bank will hold so that the site doesn't connect in lower water years. CDOW will still be looking for funding for other items on their "bucket list."*
3. Within the next month, >the **Service and Program Director's office** will provide the Committee a draft addendum to the White River report that will present the measured flow requirements in a historical hydrologic perspective. The Program Director's office also will research where we left Schmidt and Orchard's draft report on peak (channel maintenance) flows and recommend whether to have it reviewed by the geomorphology panel.
 - *10/16/08 Pending; out by the end of ~~November~~ 1/5/09: February 2009.*
 - *2/20/09: Bob Muth said he's making good progress on this and he'll have a draft to the Committee by ~~early March~~ end of April. 7/8: Mohrman and Chart expect to provide drafts of this and Price River report by the end of August 2009.*
 - *9/21/09: Chart and Mohrman have made good progress on this, but other priorities have so far prevented completion.*
 - *1/14/10: still pending*
 - *5/6/10: The Program Director's office will complete the addendum to the White River report and provide a status update and recommendation on the draft Schmidt and Orchard report on peak (channel maintenance) flows for Biology Committee review by ~~December 31, 2010~~ March 15, July 1, 2011.*
 4. ***Program Director's office (Jana Mohrman and Tom Chart)** expect to provide a draft of the Price River report by the end of August 2009. *7/13/09: Dave Speas said the goal for the Narrows EIS is to get it out for public review in the fall, so the above schedule should work. The PD's office will keep the Service's SLC-ES shop in the loop on Price River.*
 - *1/14/10: PD's office will continue to communicate with Reclamation re: Narrows.*
 - *3/3/10: PD's office is communicating with SLC-ES to determine the best way to move this position paper forward.*
 - *5/6/10: The Program Director's office will complete a position paper (or similar construct) on Price River endangered fish flow needs and submit it for Biology Committee review by September 1, 2010.*
 - *12/12/10 Program Director's office will use the information currently available to >develop a position paper on Price River flow recommendations for Committee review. The Program Director's office will revise the draft Price River position paper and get it to the Biology Committee within the next week, with comments due a month later.*
 - *Price River position paper sent 12/30/10 with comments due Jan. 31/ 11. UDWR may submit a Price River PIT tag proposal for "activities to avoid jeopardy" funding.*
 - *3/11/11: **Tom Chart** will respond to comments and revise the report (in consultation with the Service) and bring it back to the Committee by July 1, 2011.*
 - *6/21/11: Sent to Biology Committee; on 7/12/11 agenda.*

5. Melissa believes an Environmental Assessment of the impacts of the humpback chub captivity management plan (also addresses how to deal with captured roundtail chub) will need to be written; **Krissy** will work with **Melissa** on the EA.
 - 7/13/10: *Melissa needs to coordinate with the NPS if this is the case and she intends to do that in the next few weeks.*
 - 10/6/10: *John Reber reported that Melissa Trammell will do the EA for this.*
 - 5/13/11: *The **humpback chub genetics ad hoc group** will need to meet, then Melissa can prepare an EA. >Harry Crockett will check with CDOW to be sure the putative humpbacks at Mumma get moved to Ouray NFH – Randlett (will need an import permit from Utah Dept. of Agriculture). (Krissy noted that all states now require imports to have AIS certification(>Krissy will send the criteria to the Committee , as well as disease certification.) >Dale Ryden will also talk to Dave Schnoor.*

6. The **Program Director’s office** will communicate with Gary White to determine how many and which of the questions from the HBC workshop to focus on. *Pending.* **Derek Elverud** will provide the database for Westwater for Gary White to combine with Black Rocks, which will require a separate SOW.
 - 10/6/10: *Travis Francis said they plan to complete the reports, then revisit a SOW for assistance from Gary White. 3/10: pending.*
 - 4/28/10: *Derek Elverud has finished compiling the Westwater data to send to Gary White. Travis Francis is going to combine his Black Rocks data set with the Westwater data and his report (when he has time after he gets out of the field).*
 - 5/13/11: *Data have been transferred; Program Director’s office will check to make sure we’ve got this analysis covered.*

7. *The **Program Director’s office** will prepare a list of issues to be resolved regarding Tusher Wash screening (e.g., what levels of mortality are acceptable for what size classes, potential O&M costs, etc.) to help move this decision forward (and provide that to the Biology Committee and the Service). *Done.*
 - 5/6/10: *A small group (Melissa, Kevin McAbee, Dave Speas, Tom Pitts, and Tom Czapla) will work with Kevin Bestgen to review/build on the risk assessment, focusing on understanding existing impacts and what could be gained by various screening options. Tentatively, it would seem the best choice would be fish friendly runners with a screen on the irrigation ditch (contingent on further analysis). BC to submit proposal to MC by 12/31/10.*
 - 11/23/10: *Conference calls held 11/10 and 11/24 and scheduled for 12/2. 12/13 BC discussion: The Biology Committee recommended >starting with a literature review (there may be good information from low-head structures in the eastern U.S.); working on outlining what would be needed in a mortality study (including engineering considerations); and further investigating whether the owners would consider full or partial decommissioning.*
 - 1/24/11: *Dave Speas will talk to Reclamation’s Tech Center about working on these items (done).*
 - 3/1/11 *As Kevin McAbee gets engineering info from the irrigators, he will share it with the ad hoc group. Kevin also will inquire more about the purpose of the 9” (at riverbank) – 20” (at center) concrete cap, to determine whether it is to benefit the existing diversion, or both the existing diversion and the proposed diversion on river left.*
 - 5/13/11: *Dave provided a list of questions from Juddson Sechrist; the **Tusher ad hoc group***

reviewed and discussed these on April 4 (summary sent to BC 4/20/11), agreed to have another meeting (site visit) this summer, and re-iterated the need for an initial literature search/review focusing on fish mortality at other sites with small hydro-electric facilities and smaller hydraulic head differentials. Krissy Wilson would like to participate in the site visit. >**Tom Czapla** will schedule the site visit (and talk to Kevin McAbee to see if he can arrange for the group to tour the inside of the facility). The **Program Director's office** and **Reclamation** will discuss how to get the mortality study done after we determine the information needs and timeframe.

8. The **Service (GJ-CRFP and the Program Director's office)** will make recommendations for how/where to manage the fish spawned this year at the Grand Valley facility and bring those back to the Biology Committee.
 - 8/18/10: Will be discussed during the health condition profile meeting. The **Program Director's office** needs to schedule discussion//revision of the integrated stocking plan.
 - 9/30/10: >**The Program Director's office** will set up a work group for revising the propagation plan (Krissy and Michelle will assist).
 - 3/11/11 The Biology Committee directed Dave Schnoor to focus on size, not numbers, and not to try to harvest fish in the spring, since additional funds are not available.
 - 5/13/11: A meeting was held at Dexter and a summary will be out in the next few days. Results of the health condition profile meeting should be incorporated into the revised stocking plan. >**The Program Director's office** will convene a group to revise the integrated stocking plan (likely pretty much the same group to work on humpback chub genetics). Horsethief pond water may be whirling disease positive, but Krissy said that Utah can apply for a variance from their Fish Health Board since the fish will be stocked where whirling disease is present and razorback are not known to carry WD. The **Program** needs to move forward with an **ad hoc group** to revise the integrated stocking plan and to evaluate our stocking program (include cost-benefit analyses). Travis would like to be involved in that group. Dale suggested also including Dave Schnoor. Scott Durst has done considerable work on this in the San Juan and might be helpful; >**Tom Chart** will talk to Dave Campbell about this. Tom Chart said he thinks the **Program Director's office** can initiate the cost-benefit analysis.
 - 6/2/11: Core group identified: Harry Crockett, CDOW; Krissy Wilson, UDWR; and Pete Cavalli, WFG; Dale Ryden and/or Dave Schnoor, USFWS; Dave Campbell and Scott Durst, San Juan Recovery Program; and input from hatchery managers as needed (particularly as it pertains to space at facilities).
9. The **Biology Committee** will work on prioritizing their list of potential additional capital projects at a future meeting. *Ongoing*. By September 22, 2010, **Committee members and others** who suggested capital project ideas will provide short explanatory/descriptive text (preferably just a paragraph), and then the **Committee** will decide when to take the next steps (individual ranking, group discussion of combined ranking, etc.). *UDWR comments submitted; next BC discussion pending*.
10. **Sherm Hebein** will provide the Committee a copy of the output/report on CDOW's Gunnison River work (e.g., wherein they captured seven razorback last year in sampling half of the river) as soon as he receives it.
 - 8/18/10: **Sherm** will send to Angela this week to distribute to the Committee.
 - 5/13/11 >**Harry Crockett** has the report, will scan it, and send it to the Program Director's

office and Travis Francis (for the database).

- 6/2/11: *DONE*; Harry sent Dan Kowalski's report on 2008 Gunnison river sampling, during which seven razorbacks and two bonytails were collected.
11. **Angela Kantola** will modify the **final report format document** and put a note in future scope of work formats specifying that authors are to provide electronic versions of draft final reports which can be commented on directly (via track changes or through Adobe, but preferably through track changes in Word [if a Word file like this is too large, the embedded Excel files can be compressed]). *Done: SOW format and on web at <http://www.coloradoriverrecovery.org/committees/biology-committee/reportformat/BCRepRevProcess.doc>.*
 12. **Tom Czapla** will send out the briefing paper he received with the humpback chub genetic data to the Biology Committee (*done*). **Melissa Trammell** will review Dexter's new plan to see if it may impact this (*also will talk to Tom Czapla*).
 - 3/11/11: **Melissa** will talk to the Park about what they want to do with the chubs in captivity at Ouray and Mumma (likely return them to the river after acclimation) if the Program does not want to keep them. *Melissa suggested assessing morphology now that the fish have matured somewhat (Travis said he's seen the fish and they don't look like humpback to him). The Committee agreed to keep the fish in captivity for now.*
 - 6/21/11: *Pending outcome of discussion by humpback chub genetics ad hoc group.*
 13. **Dale Ryden** and **Dave Schnoor** will write up the Ouray hatchery needs (water source for Randlett and generator for Grand Valley) and submit this to the Program via Tom Czapla. **Dale** also will seek Service funding for these needs. The report will include a discussion the relative risks of power outages at Grand Valley. *Melissa suggested that for the long-term, we need a feasibility study for alternative water sources for Randlett.*
 - 5/13/11: *Dale said Reclamation says alternative water sources would have a \$10M price tag. The Service has been discussing the manganese problem and will convene a group to discuss (Program Director's office, hatchery folks, Reclamation, etc.). Dave Schnoor has been exploring the idea of a generator for the Grand Valley unit, but hasn't come up with anything yet. Dale said the Service should have a more comprehensive idea about these things in a few months.*
 - 6/21/11: *Service-Reclamation meeting scheduled for late July.*
 14. **Tom Czapla** and **Krissy Wilson** will develop recommendations for where and when to stock the Wahweap bonytail (e.g., floodplains before spawning) and send those to the Committee.
 - 5/4/11: *~6,780 bonytail were stocked at the Stirrup in early April 2011 (because movement will be detectable by the remote antennae).*
 - 5/13/11: *Krissy said they have an additional 13,000 fish that are not PIT-tagged yet that need to go out in the fall (and will convene a **group** to discuss where they should be stocked – may be discussed along with integrated stocking plan revisions).*
 15. **The Service** will add to the contaminants annual report a review of and any recommended modifications to State and Federal hazardous materials spills emergency response programs.
 - 6/21/11 *Done (discussed in annual contaminants report which will be posted to the web by PD's office).*

16. The **Program Director's office** will follow up on establishing a process to track percentages of hybrid suckers using standardized protocol for identification of hybridization at fish ladders and in monitoring reaches.
17. **Northern pike synthesis** – 5/13/11 **Harry Crockett** will let Billy Atkinson know that it will be helpful to compare the recruitment information to the tag records Billy has from his work above Hayden (Harry will ask Billy to make his data available to Kevin Bestgen and Koreen Zelasko).
18. Gunnison River Fish Community sampling – 5/13/11: the **Program Director's office** will coordinate between **CDOW** and **FWS** to work out details of collaboration between the two agencies on the Gunnison River adult monitoring in time for July sampling (and then get something back to the Biology Committee for approval). Dan Kowalski, Doug Osmundson, Dale Ryden, Harry Crockett, Sherm Hebein and John Alves (Sherm's counterpart in CDOW's Southwest region) will be involved in these discussions. **Harry Crockett** will talk with CDOW about what portion of work they can do.
19. The **Service's CRFP office** is working to salvage as many fish as possible from the soon-to-be-discontinued leased ponds this year. In light of the analyses showing fish stocked in the summer have the lowest survival rate, the **Service** will recapture and stock those fish as soon as possible.
20. **Koreen Zelasko** will submit the final #159 report (razorback stocking analysis) to the Program Director's office to post to the website. *Done.*
21. **Travis Francis** will make the revisions discussed today (5/13/11) to the Black Rocks humpback chub report (and any others folks will be submitting quickly) and send it to the Committee for e-mail consensus within 2 weeks. 6/22/11: No comments received to date; will be considered final if no comments received by 6/24/11.
22. **Biology Committee members** will review the Research Framework recommendations in advance of reviewing the FY 12-13 work plan in July. The **Program Director's office** will revise the Research Framework report on the web include a "last updated on" statement and a caveat that clarifies that this was incomplete and was a "point in time" database and direct users to the Program's laserfiche library and Program website. They also will correct the wording at the bottom of the second page of the report that suggests it is a "review draft."
23. ***Angela Kantola** will send the Committee an updated version of the reports due list. *Sent with this agenda.*
24. ***Spring Flows 2011** – 5/13/11: **Program Director's office** will fine tune an aerial photography recommendation and get back to the Committee with costs and recommendations (and check with Malcolm and others in Reclamation regarding their interest/potential funding). 6/21/11: *See 6/14/11 e-mail from Tom Chart; on agenda.*
25. **Krissy Wilson** will forward the Committee UDWR's plan for larval light trapping in Flaming Gorge Reservoir (looking for burbot) when she gets it.

Attachment 2

Springs flows captured with aerial photography throughout the Upper Colorado River basin; 2008 and 2011

River	Reach Photographed in 2011	Date Flown	Gage / Flow at time of flight; 2011 (specific timeframe)	Instant Peak flow recorded at this gage to date; 2011	Flow (avg daily) at this gage on day of flight; 2008
Gunnison	Delta to Colorado River Confluence	June 7, 2011 pm	Gunnison near GJct / 13,500 – 14,400 cfs (12:00 – 17:00)	15,100 cfs on June 8 @ 18:45	13,400 cfs on June 3, 2008
Colorado	Rifle to Loma	June 8, 2011, am	Colorado Stateline / 46,200 – 46,900 cfs (8:00 – noon)	47,200 cfs on June 8 @ 15:00	38,900 cfs on June 4, 2008
Yampa	Steamboat Springs to Maybell	June 8, 2011, pm	Yampa B'lo Craig / 16,000 – 16,400 (11:00 – 15:00)	16,400 cfs recorded during flight time	10,500 cfs on June 4, 2008
Elkhead Ck	EHR dam to Yampa River confluence	June 8, 2011, pm	Elkhead Ck at Craig / 1,640 cfs (@ 14:00)	2,180 cfs on June 7 @ 9:15	Not flown
White River	Lower 25 miles	June 8, 2011, pm	White near Watson / 4,550 – 4,600 cfs (15:00 – 17:00)	5,070 cfs on June 9 @ 11:45	Not Flown
Green River	Split Mtn to Sand Wash	June 9, 2011, am	Green near Jensen / 30,000 – 30,300 cfs (8:00 – 13:00)	33,100 cfs on June 11 @ 2:30	22,700 on June 5, 2008
Colorado	Scott Matheson Preserve, Moab	June 9, 2011, pm	Colorado near Cisco / 46,200 cfs (15:00)	46,600 cfs on June 9 @ 21:45	Not Flown

Attachment 3

"Darek Elverud"
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ov>
06/22/2011 04:15 PM

To <sjrp-biology-comments@fws.gov>
"Tom Chart" <Tom_Chart@fws.gov>, "Tom Czapla"
<Tom_Czapla@fws.gov>, "George Blommer"
<georgeblommer@utah.gov>, "Krissy Wilson"
cc <KRISSEYWILSON@utah.gov>, "Paul Birdsey"
<PAULBIRDSEY@utah.gov>, "Sarrajones"
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Subj Update on the Lake Powell Razorback Sucker Survey
ect

Hello Everyone,

I just wanted to give everyone an update on the Lake Powell razorback sucker survey. Field work was completed June 16th. In total, crews captured 75 individual razorback sucker. One of the 75 razorbacks was also captured during two separate sampling trips. Total length of razorback suckers captured ranged from 429-619 mm.

Twenty-seven (36%) of the 75 razorback sucker did not have a PIT tag when captured. In 2010, approximately 12% of the razorback suckers captured in the San Juan River above the waterfall did not have a PIT tag. The following is the number of razorbacks captured with a PIT tag and the year they were stocked in the San Juan River near Shiprock, NM: 1 - 1994, 1-1995, 1 – 2001, 1 – 2002, 14 – 2004, 3 – 2005, 4 – 2006, 16 – 2007, 1 - 2008, 1 – 2009. Three additional razorbacks were also captured in Lake Powell that had been collected and PIT tagged in the San Juan River upstream of the waterfall.

Fin clips were collected on 26 razorback suckers (17 from razorbacks without PIT tags and 9 from razorback containing a PIT tag at the time of capture). Two razorback/flannelmouth sucker hybrids were also captured and fin clipped.

In addition to the razorback suckers captured, 24 Colorado pikeminnow and 105 flannelmouth sucker were also captured. Fifty percent of the Colorado pikeminnow did not have a PIT tag when captured. Colorado pikeminnow total length ranged from 228 – 519 mm. The 24 Colorado pikeminnow includes 4 adults (>450mm). The total length of flannelmouth suckers captured ranged from 220-510 mm.

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