# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889

## Whitewater Controlled Flow Study

Date of run;

Flow 1	cfs	Date/time	
Flow 2	cfs	Date/time	
Flow 3	,000 cfs	Date/time 7-20 AM	
Flow 4	cfs	Date/time	
Flow 5, if applicable	cfs	Date/time	- 11
Flow 6, if applicable	cfs	Date/time	
. Watercraft used	(Circle appropriate one):	Stand up paddle board	
Inflatable	kayak	C2	
		Raft	
OC1			
OC1 OC2		Cataraft	
		Cataraft Other (describe):	_
OC2 C1	r boating skill level for the water		one)
OC2 C1	r boating skill level for the wate.	Other (describe):	one)
OC2 C1 Your whitewate	r boating skill level for the wate.	Other (describe): rcraft used for this flow (Circle appropriate	one)

	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	(Circle appro	priate response): .		
					No.

3. Please evaluate the boating access for this segment of river (Circle appropriate one):

Portage Rock Dam

Run Rock Dam

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

Paddle alternate canal (avoid Rock Dam,)

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of							
challenging	-2	-1	0	$\left( \begin{array}{c} 1 \end{array} \right)$	2		
technical boating							
Availability of			15				
powerful	-2	-1	( 0 )	1	2		•
hydraulics							
Availability of			د				
whitewater play	-2	-1	0	(1)	2		
areas				)	•		
Overall							
whitewater	-2	-1	(0)	1	2		
challenge							
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	1	(2)		
Number of	-2	-1	0	1	7	•	*
portages	-2	-1	U	1	$\binom{2}{}$		
Boating	-2		0	1	2		
instruction	-2	(-1)	U	1	2		
Overall Rating	-2	-1	0	(1)	2		

6. Evaluate the recently completed flow for your craft based on your perceived difficulty of the run for a "typical user". For example, if you perceived that a flow of 2,500 cfs was Class II, please rank this flow for a typical Class II boater.

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7-20	5000		-2	-1	0	1	(2)		

	Definitely no	Possibly	Probably	(Definitely yes)
8.				would you rate the whitewater f whitewater classifications for

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)

	<b>(</b> ) -
This flow rates at Class:	<u></u>

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

	ue is often difficult even for experts. A very reliable eskimo roll, perience, and practiced rescue skills are essential.
9. What skill level does a paddler need	I to safely paddle the bypass at this flow? (Circle one)
Beginner	Advanced
Novice	Expert
Intermediate	
10. Relative to this flow, would you con enjoyable recreation experience) to	sider the minimum acceptable flow (enough flow for an be higher, lower, or about the same as this flow? Circle one
Much lower	Higher
Lower	Much higher
No change	
11. Relative to this flow, would you con about the same as this flow? Circle	sider the optimum flow for this type of trip to be higher, lower, or one
Much lower	Higher
Lower	Much higher
No change	
· 13. Using site numbers or locations, pleadifficulty (using the International Wi	ase identify challenging features, rapids or sections and rate their hitewater Scale at this flow).
Site numbers/Locations <sup>1</sup> FIRST Rapid 2+ ROCK DAM 2	Rating
14. Estimate the number of hits, stops, be	oat drags, and portages you had at this flow (i.e., did you hit

Number of hits (but did not stop)

Number of hits with stops (did not have to get out of boat)

Number of hits with stops (had to get out of boat to continue)

anything and did you have to stop or get out of the boat to continue?).

Number of portages

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

	ation and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
ROCK DAV	Λ		2	3	. 4 .
		1	2	3	4
		1	2	3	4
Difficulty			L	ocation	
Difficulty				ocation	
Difficulty				ocation	
Difficulty			L 	ocation	

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### SINGLE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run: 7/1 114

Name: Jim Dowd

Flow 1	5000	cfs	Date/time	9:00 Agn - 1100 A (Appa
Flow 2		cfs	Date/time	
Flow 3	•	cfs	Date/time	
low 4	c	cfs	Date/time	
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable	4.00.000.000	cfs	Date/time	·
Watercraft us	sed (Circle appropriate or	ne):		
/				
Andrew Commission of the Commi	ell kayak		Stand up paddle be	oard
. Hard sho			Stand up paddle be	oard
Annual Marie Commission of the				oard
Inflatabl			C2	oard
Inflatabl OC1			C2 Raft	
Inflatabl OC1 OC2 C1	le kayak	r the water	C2 Raft Cataraft Other (describe):	
Inflatabl OC1 OC2 C1	le kayak ater boating skill level for	the water	C2 Raft Cataraft	
Inflatable OC1 OC2 C1 Your whitewa	le kayak ater boating skill level for	the water	C2 Raft Cataraft Other (describe):_ ceraft used for this flow (C	

3. Please evaluate the boating access for this segment of river (Circle appropriate one):

Put-in Access:

easy

moderate

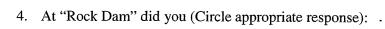
difficult

Take-out Access:

easy

moderate

difficult



Run Rock Dam

Portage Rock Dam

Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0		2		
Availability of powerful hydraulics	-2	-1	0		2		-
Availability of whitewater play areas	-2	-1	Ó		2 .		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	12	2		
Aesthetics	-2	-1	0	$\langle I_2 \rangle$	2		
Length of run	-2	-1	0	1_	2		
Number of portages	-2	-1	©	1	2	•	
Boating instruction	-2	-1	0	9	2		
Overall Rating	-2	-1	0	(1)	2		

6. Evaluate the recently completed flow for your craft based on your perceived difficulty of the run for a "typical user". For example, if you perceived that a flow of 2,500 cfs was Class II, please rank this flow for a typical Class II boater.

[Soo CFS Class II] Rock Fall Class II unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
TEOIN	5000	见世	-2	-1	0	(1).	2		
	Rock	BUS					•	<u></u>	

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)

Definitely no

Possibly

Probably

Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9.	What skill level does a paddler need to safely paddle	the bypass at this flow? (Circle one)
	Beginner	Advanced
•	Novice	Expert
	Intermediate	
10.	Relative to this flow, would you consider the minimu enjoyable recreation experience) to be higher, lower,	
	Much lower	Higher
	No change - May change my mind	Much higher Her ranning ligher Slows
11.	Relative to this flow, would you consider the optimum about the same as this flow? Circle one	
	Much lower	Higher
	Lower	Much higher
	No change - My Spunon was che	Much higher was degler texels
13.	Using site numbers or locations, please identify challed difficulty (using the International Whitewater Scale at	nging features, rapids or sections and rate their this flow).
	Site numbers/Locations <sup>1</sup>	Rating
	Rock Dam - challenge to s	River bazards thorace randon cont at this love (
14.	Estimate the number of hits, stops, boat drags, and por anything and did you have to stop or get out of the boat	tages you had at this flow (i.e., did you hit
	Number of hits (but did not stop) .	0
	Number of hits with stops (did not have to get out of b	oat) <u>O</u>
	Number of hits with stops (had to get out of boat to co	
A STATE OF THE PARTY OF THE PAR	Number of portages Volume 1866	0-11
	Corrido bood aparon or	roce Jan tuso timos
	Number of portages Volumtared  > Correct boot upstream of  un order to Run Right  the Class III to state	on the contract
	I'me cross TT. 2101	and suited black

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
Roplecon	1		3	A
		2		. 4 .
	1	_	3	4
	1	2	3	4
<ol> <li>Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed)</li> </ol>	apped b	ooat, swam) vour run at i	or identify any	y specific risk vide a brief
description and location of these experiences or iden				vido a orior
Difficulty			ocation	• • • • • • • • • • • • • • • • • • •
Stramor		_ 1	Mos 1/2	melle below
			urners-6	streenfield
		V	ovido2	
Provide any additional comments shout this flow hal	low. If			
. Provide any additional comments about this flow bel	iow. If	necessary,	please use site	
numbers/locations to identify specific locations.				
, , ,			٠	
Take Out at Poplar Stree			٤	
Take Out at Poplar Stree	· Krig	ght o	t was "	be dot
Take Out at Poplar Stree	"Ry Water	ght o	tween	be obtained the
Take Out at Poplar Street Request (suggest that ~ (et) River Left immed Takeout we are using.	"Ry Ristely Ror	1 The	stude.	ė
Take Out at Poplar Street Request (suggest that m (et) Ruer Left immed Takeout we are using The "Right of way" is	"Ry Roll Roll Roll	The roll of	stude	et to be
Take Out at Poplar Street Request (suggest that  n (et) Ruer Left immed  Takeout we are using  The "Right of way" is	"Ry Rotales	The roll to	stude.	et to be
Take Out at Poplar Street Request (suggest that  n (et) Ruer Left immed  Takeout we are using  The "Right of way" is	"Ry Rotales	The roll to	stude.	et to be
Take Out at Poplar Street Request (suggest that a (et) River Left immed Takeout we are using The "Right of way" is driveable from Poplar S Pople are camping to	"Righted Rot aff	the roll to	stube hotus ver's s	ed to be edge. hat said 6
Take Out at Poplar Street Request (susgest that  n (et) River Left immed  Takeout we are using  The "Right of way" is  driveable from Poplar S  People are company to	"Righted Rot aff	the roll to	stube hotus ver's s	et to be edge- hot sandb
Take Out at Poplar Street Request (suggest that  n (et) Ruer Left immed  Takeout we are using  The "Right of way" is	"Righted Rot aff	the roll to	stube hotus ver's s	ed to be edge. hat said 6

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## SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889

## Whitewater Controlled Flow Study

low 1		cfs	Date/time
Flow 2	·	cfs	Date/time
Flow 3	5000	cfs	Date/time 7-20-14 PAM
Flow 4	,	cfs	Date/time
Flow 5, if applicable		cfs	Date/time
			1
•		cfs	Date/time
Watercraft	used (Circle appropriate		
Watercraft	used (Circle appropriates) Shell kayak Ible kayak		Date/time  Stand up paddle board  C2
Watercraft	shell kayak		Stand up paddle board
Watercraft  Hard s  Inflata	shell kayak		Stand up paddle board C2
. Watercraft : Hard s Inflata	shell kayak		Stand up paddle board C2 Raft
. Watercraft : Hard s Inflata OC1 OC2 C1	shell kayak ble kayak	e one):	Stand up paddle board C2 Raft Cataraft
Hard s Inflata OC1 OC2 C1	shell kayak ible kayak water boating skill leve	e one):	Stand up paddle board C2 Raft Cataraft Other (describe):

3.	Please evaluate the boating	ng access for	this segment	of river (C	ircle appropriate one):
	Put-in Access:	(easy)	moder	ate	difficult
	Take-out Access:	easy	moder	ate	difficult
4.	At "Rock Dam" did you (	Circle appro	priate respons	se): .	
	Run Rock Dam	Portage F	Rock Dam	Paddle al	ternate canal (avoid Rock Dam,)
5.	Please evaluate this flow	for your craf	t and skill lev	el for each	of the following characteristics (

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	(1)	2		
Availability of challenging technical boating	-2	-1	0		2		
Availability of powerful hydraulics	-2	-1	0		2		
Availability of whitewater play areas	-2	-1	ó		2 .		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	<u>(1)</u>	2		***************************************
Length of run	-2	-1	0	(1)	2		
Number of portages	-2	-1	(0)	1	2	•	
Boating instruction	-2	-1	$\widetilde{0}$	(1)	2		
Overall Rating	-2	-1	0	(1)	2		

6. Evaluate the recently completed flow for your craft based on your perceived difficulty of the run for a "typical user". For example, if you perceived that a flow of 2,500 cfs was Class II, please rank this flow for a typical Class II boater.

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7-20.14	5000	サモ	-2	-1	. 0	/1/	2		

7.	Are you likely	to return	for future	boating in	the Ti	urners Falls	by pass	at this	flow?	(Circle	one)
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Possibly

Probably

Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates	at Class:	1	4	

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

		nd rescue is often difficult even for experts. A very reliable eskimo roll, sive experience, and practiced rescue skills are essential.
9.	What skill level does a paddl	er need to safely paddle the bypass at this flow? (Circle one)
	Beginner	Advanced
•	Novice	Expert
	Intermediate	
10.		you consider the minimum acceptable flow (enough flow for an ace) to be higher, lower, or about the same as this flow? Circle one
	Much lower	Higher
	Lower	Much higher
	No change	
11.	Relative to this flow, would y about the same as this flow?	ou consider the optimum flow for this type of trip to be higher, lower, or Circle one
	Much lower	Higher
	Lower	Much higher
	No change	
13.	Using site numbers or location	ns, please identify challenging features, rapids or sections and rate their

14. Estimate the number of hits, stops, boat drags, and portages you had at this flow (i.e., did you hit anything and did you have to stop or get out of the boat to continue?).

Number of hits (but did not stop) Number of hits with stops (did not have to get out of boat) Number of hits with stops (had to get out of boat to continue) Number of portages

difficulty (using the International Whitewater Scale at this flow).

Site numbers/Locations<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
1	2	3	. 4 .
1	2	3	4
1	2	3	4
		ocation	
	1 1 1 rapped b	Difficult  1 2  1 2  1 2  rapped boat, swam) during your run at the string risks	Difficult Difficult  1 2 3  1 2 3  1 2 3  rapped boat, swam) or identify any during your run at this flow? Providence of the control of the c

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17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

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#### SINGLE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:	7/20/14	_		
Name:	7/20/14 DRDAN 1AV	2055		
4000			¢ .	
Indicate which	flow release this survey	corresponds	to (check appropriate box	x):
Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	5000	cfs	Date/time 7/20 JAM	
Flow 4	٤	cfs	Date/time	
Flow 5, if		cfs	Date/time	
applicable				
Flow 6, if		cfs	Date/time	
applicable				
1. Watercraft u	ised (Circle appropriate	one):		
. Hard sl	hell kayak		Stand up paddle be	oard
Inflatal	ble kayak		C2	
OC1			Raft	
OC2			Cataraft	
C1			Other (describe):_	
2. Your whitew	vater boating skill level	for the water	craft used for this flow (C	Circle appropriate one):
Beginn	er .		. Advanced	
Novice			Expert	
Interme	ediate			

3.	Please evaluate the bo	ating access for	this segment of river (C	ircle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easy	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

	Run Rock Dam	Portage Rock Dam	Paddle alternate canal (avoid Rock Dam,)
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5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0		2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2 ·	-1	Ö	1	2 .		
Overall whitewater challenge	-2	-1	0	(1)	2		
Safety	-2	-1	Q	1	(2)		
Aesthetics	-2	-1	(0)	_1	$\checkmark_2$		
Length of run	-2	-1	T O		2		
Number of portages	-2	-1	0	1	2		
Boating instruction	-2	-1	0		2		_
Overall Rating	-2	-1	0	(J)	2		

6. Evaluate the recently completed flow for your craft based on your perceived difficulty of the run for a "typical user". For example, if you perceived that a flow of 2,500 cfs was Class II, please rank this flow for a typical Class II boater.

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20 9A	5200	耳(田)	-2	-1	0	1	(2)		

7.	Are you likely to r	eturn for future boating in the	Turners Falls bypass at	this flow? (Circle one)
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Definitely no Possibly Probably Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

Beginner	Advanced
Novice	Expert
Intermediate	
10. Relative to this flow, would you of enjoyable recreation experience)	consider the minimum acceptable flow (enough flow for an to be higher, lower, or about the same as this flow? Circle one
Much lower	Higher
Lower	Much higher
No change	
11. Relative to this flow, would you of about the same as this flow? Circ	consider the optimum flow for this type of trip to be higher, lower, or ele one
Much lower	Higher
Lower	Much higher
No change	
13. Using site numbers or locations, p difficulty (using the International	blease identify challenging features, rapids or sections and rate their Whitewater Scale at this flow).
Site numbers/Locations <sup>1</sup>	Rating
	s, boat drags, and portages you had at this flow (i.e., did you hit or get out of the boat to continue?).
Number of hits with stops (did no	t have to get out of boat)
Number of hits with stops (had to	
Number of portages	0

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
NA	1	2	3	Difficult
	1	2	3	4
	1	2	3	4
16. Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	during y	your run at	or identify any this flow? Pro	y specific risk vide a brief
Difficulty  A /A		L	ocation	
		<del></del>	/	
				ner
17. Provide any additional comments about this flow be numbers/locations to identify specific locations.  TAKE OUT WILL SE VENY				nlr
				nle
numbers/locations to identify specific locations.  TAKE OUT WILL SE VERY  VAINING.	dif	fier	ان ۱۲	
numbers/locations to identify specific locations.  TAKE OUT WILL SE VERY  VAINING.	dif	fier	ان ۱۲	perk
numbers/locations to identify specific locations.  TAKE OUT WILL SE VERY  VAINING.	dif	fier	ان ۱۲	peg/k
numbers/locations to identify specific locations.  TAKE OUT WILL SE VERY  VAINING.	dif	fier	ان ۱۲	perk 5-ki
numbers/locations to identify specific locations.  TAKE OUT WILL SE VERY  VAINING.  Af His How, I wanted to when were ready for the search of	Jif NOU	Fier The	It who brings	per/k
numbers/locations to identify specific locations.  TAKE OUT WILL SE VERY  VAINING.  TAKE OUT WILL SE VERY  TOM FIFE.  The Mair  The Durch Will Se VERY  Tom Fife.	Jif NOU	Fier The A	It while bring small	• •
17. Provide any additional comments about this flow be numbers/locations to identify specific locations.  TAXE OUT WILL SO VENTY  TAXE OUT WILL SO VEN	Jif NOU	Fier The A	It while bring small	. "

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#### SINGLE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:  $\frac{7|20|2014}{}$ 

low 1	5,000 cfs	Date/time 7120/9.30-	7 W
Flow 2	cfs	Date/time	2 4 3 5
Flow 3	· cfs	Date/time	
Flow 4	cfs	Date/time	ć
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	***************************************
		——————————————————————————————————————	
and the second	ed (Circle appropriate one):	Stand up paddle board	1
and the second	ell kayak cheese	Stand up paddle board C2	i
. Hard she	ell kayak cheese		
. Hard she	ell kayak cheese	C2	<b>i</b>
. Hard she Inflatable OC1	ell kayak cheese	C2 Raft	
. Hard she Inflatable OC1 OC2 C1	ell kayak cheese	C2 Raft Cataraft Other (describe):	
. Hard she Inflatable OC1 OC2 C1	ell kayak Chelle e kayak tter boating skill level for the wat	C2 Raft Cataraft Other (describe):	

3.	Please evaluate the boar	Please evaluate the boating access for this segment of river (Circle appropriate one)							
	Put-in Access:	easy	moderate	difficult					
	Take-out Access:	easy	moderate	difficult					

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam	Portage Rock Dam	Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0	1	2		
Availability of powerful hydraulics	-2	-1	0	1	2		,
Availability of whitewater play areas	-2 ·	-1	0	- (I)	2 .		
Overall whitewater challenge	-2	-1	. 0	1	2		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	(1)	2		
Number of portages	-2	-1	0	1	2		
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	(0)	1	2		-

6. Evaluate the recently completed flow for your craft based on your perceived difficulty of the run for a "typical user". For example, if you perceived that a flow of 2,500 cfs was Class II, please rank this flow for a typical Class II boater.

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20,9:30	5000	正(证)	-2	-1	0	(1)	2		

7.	Are you likely	to return for futur	e boating in the	Turners Falls by	pass at this flow?	(Circle one)
----	----------------	---------------------	------------------	------------------	--------------------	--------------

Definitely no	Possibly	Probably	Definitely yes
	TO TROCK O	Mars	

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:	正(亚)	

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	(Novice to rock dam)	Advanced
•	Novice (do rock dam)	Expert
	Intermediate	
10.	Relative to this flow, would you consider the minimum enjoyable recreation experience) to be higher, lower,	
	Much lower	Higher
	Lower	Much higher
	No change this seems like minimu	im Flers
11.	Relative to this flow, would you consider the optimus about the same as this flow? Circle one	m flow for this type of trip to be higher, lower, or
	Much lower	Higher
	Lower	Much higher
	No change	
13.	Using site numbers or locations, please identify challed difficulty (using the International Whitewater Scale as	
esseri u	Site numbers/Locations   The right channel reading   Sime play waves, at higher  First rapid (R) of Island at	o, torack dam) had Rating 6000 it mant be more playful Lev davu ma 30mo wave
14.	Estimate the number of hits, stops, boat drags, and po anything and did you have to stop or get out of the bo	
	Number of hits (but did not stop)	O
	Number of hits with stops (did not have to get out of	boat)
	Number of hits with stops (had to get out of boat to co	ontinue)
	Number of portages	<u> </u>
•		•

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

	_	<b>011</b>	3.6.1	NA
Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or ide Difficulty	ntified r	iskš	ocation	vide a orier
Difficulty		1.	ocation	
no more than first twonin	<u>. 20</u>			
no more than first twonin	<u>)</u>			
no more than first twonin	) <u>(</u>			
no more than first twonus	, 20			
			please use site	
Provide any additional comments about this flow be numbers/locations to identify specific locations.	elow. If	necessary,		
Provide any additional comments about this flow be numbers/locations to identify specific locations.	elow. If	necessary,	Logo in	10.CS
Provide any additional comments about this flow be numbers/locations to identify specific locations.	elow. If	necessary,	Logo in	WCS COL
Provide any additional comments about this flow be numbers/locations to identify specific locations.	elow. If	necessary,	Logo in	vers Decresel
Provide any additional comments about this flow be numbers/locations to identify specific locations.  HIS SEMPLE UKE A MICE SEPPLE UP FROM THE SEPPLE UP FROM THE	elow. If	necessary,	bogins x of =	BUTOU Second
Provide any additional comments about this flow be numbers/locations to identify specific locations.  HIS SEMPLE UKE A MICE SEPPLE UP FROM THE SEPPLE UP FROM THE	elow. If	necessary,	bogins x of =	BUTOU Second
Provide any additional comments about this flow be numbers/locations to identify specific locations.  HIS SEMPLE UKE A MICE SEPPLE UP FROM THE SEPPLE UP FROM THE	elow. If	necessary,	bogins x of =	BODON Second
Provide any additional comments about this flow be numbers/locations to identify specific locations.	elow. If	necessary,	bogins x of =	BUTOU Second

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#### SINGLE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Flow 1	cfs	Date/time	
Flow 2	cfs	Date/time	
Flow 3	· cfs	Date/time	7/20 Au
Flow 4	cfs	Date/time	4
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
. Watercraft used (Circle ap	ppropriate one):	Stand up pad	dla boord
. Hard shell kayak		Stand up pad	uie boaiu
Inflatable kayak		C2	die board
			die board
Inflatable kayak		C2	die board
Inflatable kayak OC1		C2 Raft	
Inflatable kayak OC1 OC2 C1	skill level for the water	C2 Raft Cataraft Other (descri	
Inflatable kayak OC1 OC2 C1	skill level for the water	C2 Raft Cataraft Other (descri	be):
Inflatable kayak OC1 OC2 C1 Your whitewater boating	skill level for the water	C2 Raft Cataraft Other (descri	be):

3.	Please evaluate the boating access for this segment of river (Circle appropriate one):							
	Put-in Access:	easy	moderate	difficult				
	Take-out Access:	easy	moderate	difficult				

Portage Rock Dam

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam

	Run Rock Dam	Portage Rock Dam	Paddle alternate ca	anal (avoid Rock Dam,)
5.			evel for each of the fol	lowing characteristics (Circle
	one number for each charac	cteristic).		

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	2		
Availability of challenging technical boating	-2	-1	0		2		
Availability of powerful hydraulics	-2	-1	0		2		
Availability of whitewater play areas	-2	-1	ó		2 .		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	(1)	2		
Length of run	-2	-1	0	(1)	2		
Number of portages	-2	-1	0	1	2		
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	0		2		•

6. Evaluate the recently completed flow for your craft based on your perceived difficulty of the run for a "typical user". For example, if you perceived that a flow of 2,500 cfs was Class II, please rank this flow for a typical Class II boater.

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20 thm	5000	<i>  [[1]</i>	-2	-1	0	1	((2)		

7.	Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)						
	Definitely no	Possibly		Probably	Definitely yes		
8.					would you rate the whitewater of whitewater classifications for		
Thi	s flow rates at Class:	Perinsus			•		

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

		and rescue is often difficult even for experts. A very reliable eskimo roll, asive experience, and practiced rescue skills are essential.
9.	What skill level does a pado	ller need to safely paddle the bypass at this flow? (Circle one)
	Beginner	Advanced

Beginner

Novice

Expert

Intermediate

10. Relative to this flow, would you consider the minimum acceptable flow (enough flow for an enjoyable recreation experience) to be higher, lower, or about the same as this flow? Circle one

Much lower

Higher

Much lower Higher

Lower Much higher

No change

11. Relative to this flow, would you consider the optimum flow for this type of trip to be higher, lower, or about the same as this flow? Circle one

Much lower

Lower

Much higher

No change

13. Using site numbers or locations, please identify challenging features, rapids or sections and rate their difficulty (using the International Whitewater Scale at this flow).

Site numbers/Locations <sup>1</sup>	Rating
1St PAPLD	( )
ROCK DAWA	11-11

14. Estimate the number of hits, stops, boat drags, and portages you had at this flow (i.e., did you hit anything and did you have to stop or get out of the boat to continue?).

Number of hits (but did not stop)

Number of hits with stops (did not have to get out of boat)

Number of hits with stops (had to get out of boat to continue)

Number of portages

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15. Using site numbers/locations on the map provided, identify rapids or sections you portaged and rathe difficulty of the portages (for your type of watercraft at this flow)							
	Place site numbers/location and reason for portage		Slightly Difficult	Moderately Difficult	Extremely Difficult		
		1	2	3	. 4 .		
		1	2	3	4		
		1	2	3	4		
10.	Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed) description and location of these experiences or ider Difficulty	during your run at this flow? Provide a brief					
	Provide any additional comments about this flow be numbers/locations to identify specific locations.			olease use site			

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:	Sunday, July 20	2014		
Name: Kat	nhe O'Brien			
	·		•	
Indicate which	flow release this survey cor	responds	to (check appropriate box)	:
Flow 1	5000 cfs	cfs	Date/time 7/20/14	9 AM - 11 AM
Flow 2		cfs	Date/time	
Flow 3	•	cfs	Date/time	
Flow 4		cfs	Date/time	c
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable		cfs	Date/time	
1. Watercraft u	used (Circle appropriate one	e):		<del></del>
. (Hard s	hell kayak play boat		Stand up paddle boa	ard
Inflatal	ble kayak		C2	
OC1			Raft	
OC2			Cataraft	
C1			Other (describe):	
2. Your whitev	vater boating skill level for	the water	craft used for this flow (Cir	rcle appropriate one):
Beginn	er .		Advanced	
Novice			Expert	
Interme	ediate			

3.	Please evaluate the boats	ng access for	this segment of river (C	ircle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easv	X moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

	Run Rock Dam	Portage Rock Dam .	Pa	addle	alternate	canal	(avc	oid Rock	$\mathbf{D}$	am.	.)
4	Rive lett: Main forgue	River right : ming	f				`				,
_	Dlaces l4- 41 91	C 1 1 111 1	1.0		1 0 1	0 11				_	

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	· B		
Availability of challenging technical boating	-2	-1	0	<b>O</b>	2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2	-1	Ø*	1	2 .		
Overall whitewater challenge	-2	-1	0	. 1	2		
Safety	-2	-1	0	1	<b>Ø</b>		****
Aesthetics	-2	-1	0	<b>P</b>	2		
Length of run	-2	-1	0	Ø	2		
Number of portages	-2	-1	0	1	2	•	
Boating instruction	-2	-1	0	1	<b>②</b>		
Overall Rating	-2	-1	0		2		-

\* The waves we there, but lack
access (eddics). Everything
is "catch on the fly"

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
			-2	-1	0	1	2		

)

	Definitely no	Possibly	Probably	Definitely yes
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8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class: Class II w/ one class III (rock dam)

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9.	What skill level does a	a paddler need to safely padd	lle the bypass at this flow	i? (Circle one)
	Beginner		Advanced	
-	Novice	Advand	Expert	
10	Intermediate  Relative to this flow, venjoyable recreation ex	Advanced Legioner if  They portage / Ly p  would you consider the mining  experience) to be higher, lower	num acceptable flow (ener, or about the same as the	, lough flow for an his flow? Circle one
	Much lower		Higher	
	Lower		Much higher	•
	No change			
11.	Relative to this flow, we about the same as this	vould you consider the optim flow? Circle one	num flow for this type of	trip to be higher, lower, or
	Much lower		Higher	
	Lower	e the	Much higher	
	No change	•		
13.		locations, please identify cha ternational Whitewater Scale		or sections and rate their
	Site numbers/Locations  First Kapid  Rock dana	(below dam)		Rating  Class II+
14.	Estimate the number of	hits, stops, boat drags, and pave to stop or get out of the b	portages you had at this i	
	Number of hits (but did	l not stop)		<u> </u>
	Number of hits with sto	ops (did not have to get out o	of boat)	<u> </u>
	Number of hits with sto	ops (had to get out of boat to	continue)	
	Number of portages			<u></u>
				•

 $<sup>^{1}</sup>$  Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15. Using site numbers/locations on the map provided, identify rapids or sections you portaged and rate the difficulty of the portages (for your type of watercraft at this flow)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
No portaging (Rock dam would	1	2	3	. 4 .
have been simple to portage or	1	2	3	4
take a deferent changed. Every to	1	2	3	4
walk back of too).				

16. Did you experience any difficulties (e.g., pinned, wrapped boat, swam) or identify any specific risk (e.g., downed trees, woody growth in the river bed) during your run at this flow? Provide a brief description and location of these experiences or identified risks..

Difficulty	Location
A few shore line trees on the islands	
but all in mild current and easily	
avoided.	

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

this iver stretch has a lot of potential. It's convently located is access is easy. I'm not sure bean many boaters will want to run this with only 2 rapids. They were her at 5000 cts, lest still might not be enough to draw people here.

The rapid below the dam has some great waves. Most of these though most be rought on the fly and have no eddy service. This limits how much they can be played. The birst rapid would be the perfect place for a whitewake play park. Thearing I building a few eddies would significantly increase the desire for this run and amount of boater traffic.

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#### SINGLE FLOW EVALUATION FORM

### Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:  $\frac{7/30/14}{}$ 

Flow 1 5,0	00 cfs	Date/time	Morning
Flow 2	cfs	Date/time	
Flow 3	cfs	Date/time	
Flow 4	cfs	Date/time	٤
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
Hard shell kayak	,	Stand up padd	le board
Inflatable kayak OC1		C2 Raft	
Inflatable kayak			
Inflatable kayak OC1		Raft	e):
Inflatable kayak OC1 OC2	skill level for the water	Raft Cataraft Other (describ	
Inflatable kayak OC1 OC2 C1	skill level for the water	Raft Cataraft Other (describ	
Inflatable kayak OC1 OC2 C1 Your whitewater boating	skill level for the water	Raft Cataraft Other (describ	

3.	Please evaluate the boat	Circle appropriate one):		
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easy	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam Portage Rock Dam Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	2		
Availability of challenging technical boating	-2	-1	0	1	2		
Availability of powerful hydraulics	-2	-1	0	1	2		÷
Availability of whitewater play areas	-2	-1	Ó	1	2		•
Overall whitewater challenge	-2	-1	0	1	(2)		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	1	<b>(2</b> )		
Length of run	-2	-1	0	1	<b>(2</b> )		
Number of portages	-2	-1	0	1	2	•	
Boating instruction	-2	-1	0	1	<u> </u>		
Overall Rating	-2	-1	0	1	(2)		

If unacceptable, was flow:

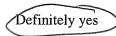
Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
			-2	-1	(0)	1	2		

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circ	ircle one	flow? (	at this	bypass a	ners Falls	the '	boating in	for future	y to return	Are you likely	7.
--	-----------	---------	---------	----------	------------	-------	------------	------------	-------------	----------------	----

Definitely no

Possibly

Probably



8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

		escue is often difficult even for experts. A very reliable eskimo roll, experience, and practiced rescue skills are essential.
9.	What skill level does a paddler no	eed to safely paddle the bypass at this flow? (Circle one)
	Beginner	Advanced
•	Novice	Expert
	Intermediate	
10.		consider the minimum acceptable flow (enough flow for an to be higher, lower, or about the same as this flow? Circle one
	Much lower	Higher
	Lower	Much higher
	No change	
11.	Relative to this flow, would you of about the same as this flow? Circ	consider the optimum flow for this type of trip to be higher, lower, or ele one
	Much lower	Higher
	Lower	Much higher
	No change	
13.	Using site numbers or locations, p difficulty (using the International	blease identify challenging features, rapids or sections and rate their Whitewater Scale at this flow).
	Site numbers/Locations <sup>1</sup>	Rating
	Upper Leages	
	Rock Dam	
		s, boat drags, and portages you had at this flow (i.e., did you hit or get out of the boat to continue?).

٠ 13.

14.

Number of hits (but did not stop)

Number of portages

Number of hits with stops (did not have to get out of boat)

Number of hits with stops (had to get out of boat to continue)

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15.	Using site numbers/locations on the map provided, it the difficulty of the portages (for your type of water	dentify craft at	rapids or se this flow)	ections you por	taged and rate				
	Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult				
	None	1	2	3	. 4 .				
		1	2	3	4				
		1	2	3	4				
16.	Did you experience any difficulties (e.g., pinned, wrapped boat, swam) or identify any specific risk (e.g., downed trees, woody growth in the river bed) during your run at this flow? Provide a brief description and location of these experiences or identified risks								
	Difficulty		L	ocation					

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

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#### SINGLE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Indicate which flow release this survey corresponds to (check appropriate box):

Date of run: 7/20/14

Name: Zachary Hvizdak

Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	5000	cfs	Date/time 7/20/14	10:00 an
Flow 4	4	cfs	Date/time	
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable		cfs	Date/time	
. Watercraft 1	used (Circle appropriate	e one):		
	used (Circle appropriate	e one):	Stand up paddle bo	ard
. Hard s	used (Circle appropriate hell kayak ble kayak	e one):	Stand up paddle bo	ard
. Hard s	hell kayak	e one):		ard
. Hard s	hell kayak	e one):	C2	ard
Hard s Inflata OC1	hell kayak	e one):	C2 Raft	
Hard s Inflata OC1 OC2 C1	hell kayak ble kayak		C2 Raft Cataraft	
Hard s Inflata OC1 OC2 C1	hell kayak ble kayak water boating skill level		C2 Raft Cataraft Other (describe):	
Hard s Inflata OC1 OC2 C1 . Your whitev	hell kayak ble kayak water boating skill level		C2 Raft Cataraft Other (describe): ercraft used for this flow (Ci	

3.	Please evaluate the boa	ting access for th	ns segment of river (Ci	rcle appropriate one):	
	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	ı (Circle appropi	riate response): .		Bota
	Run Rock Dam	Portage Ro	ck Dam Paddle alte	ernate canal (avoid Ro	ock Dam,)
5.	Please evaluate this flow one number for each ch		and skill level for each of	of the following charac	cteristics (Circle

If unacceptable, was flow:

1	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	2		
Availability of challenging technical boating	-2	-1	0	1	2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2	-1	Ö	1	2 .		
Overall whitewater challenge	-2	-1	0	1	2		
Safety	-2	-1	0	1	$\sim$ 2		
Aesthetics	-2	-1	0		(2)		***************************************
Length of run	-2	-1	0		2		
Number of portages	-2	-1	0	1	<b>②</b>	\$	
Boating instruction	-2	-1	0	Î	2		
Overall Rating	-2	-1	0		2		·

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
		1/	-2	-1	0		2	1.41	

7.	Are you likely to ret	urn for future boatin	g in the Turners	s Falls bypass	at this flow? (Circl	le one)
	Definitely no	Possibly	95 an in. Probet North	strates obably	to Begins- Definitely	yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:	//	
Time from faces at Class.		

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10.		u consider the minimum acceptable flow (enouge) to be higher, lower, or about the same as this f	
	Much lower	Higher	me
	Lower	Much higher	·
	No change for class	s // Raters	
11.		consider the optimum flow for this type of trip	to be higher, lower, or
	Much lower	Higher	
	Lower	Higher Much higher	
	No change		
13.	Using site numbers or locations difficulty (using the International	, please identify challenging features, rapids or sal Whitewater Scale at this flow).	sections and rate their
	Site numbers/Locations <sup>1</sup>		Rating
	Rock Domn		///
14.	Estimate the number of hits, stop anything and did you have to stop	ps, boat drags, and portages you had at this flow op or get out of the boat to continue?).	(i.e., did you hit
	Number of hits (but did not stop	) <u>-</u>	2_
	Number of hits with stops (did r	not have to get out of boat)	<i>O</i>
	Number of hits with stops (had t	to get out of boat to continue)	0
	Number of portages		<u></u>
٠			•

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

	Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremel Difficul	-
		1	2	3	. 4 .	
		1	2	3	4	
		1	2	3	4	
16.	Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	during y	your run at	or identify any this flow? Pro	y specific r vide a brief	isk f
	Difficulty		L	ocation		
						*
	Describe and district the second of the seco	1 TC		1		
			*******	nlanca mea cita		
	Provide any additional comments about this flow bell numbers/locations to identify specific locations.	iow. II	necessary,	picase use site		
	numbers/locations to identify specific locations.	•				
	numbers/locations to identify specific locations.	•			m=/+1,	n/e
	numbers/locations to identify specific locations.	•			m = / +1)	n/e
	numbers/locations to identify specific locations.	•			multi, me	n/e
7	numbers/locations to identify specific locations.  At this level Rock  echnical lines which  novices  of take beginneds down	Dam.	n of	Res make river.	m-/ti, me Roc	r/e L,
7	numbers/locations to identify specific locations.  At this level Rock  echnical lines which  novices  of take beginneds down	Dam.	n of	Res make river.	m / fi, me Roc	r/e
7	numbers/locations to identify specific locations.  At this level Rock  echnical lines which  novices  of take beginneds down	Dam.	n of	Res make river.	multi, me Roc becous	De L,
7	numbers/locations to identify specific locations.  At this level Rock  echnical lines which  novices  of take beginneds down	Dam.	n of	Res make river.	me/ti) me  Roc  become	ple L,
t t	numbers/locations to identify specific locations.  at this level Rock  chrisal lines which  novices  take beginness come  s now better than  n be run many tin	Dam.	n of	Make Make Viver.	secons	se.
1 + i.	numbers/locations to identify specific locations.  at this /evel Rock  chrical lines which  novices  o take beginness com  s now better than  n be run many tin  is a good place to	Dam. no. 1	n of	More make river.	secons ho	se.
1 + i.	numbers/locations to identify specific locations.  at this /evel Rock  chrical lines which  novices  o take beginness com  s now better than  n be run many tin  is a good place to	Dam. no. 1	n of	More make river.	secons ho	se.
t t is	numbers/locations to identify specific locations.  at this level Rock  chrisal lines which  novices  take beginness come  s now better than  n be run many tin	Dam. ho	n of	Make Make Viver. Sap & Movices hopices	secons ho	~

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:	120/14 Modens			
	10.0 5.0	-		
Name: Vohn	Viodens		,	
Indicate which fl	low release this survey c	orresponds	to (check appropriate b	oox):
Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	5000	cfs	Date/time	7/20 9:00
Flow 4	£	cfs	Date/time	V
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable	·	cfs	Date/time	
1. Watercraft us	sed (Circle appropriate o	one):		
. Hard sh	ell kayak		Stand up paddle	board
Inflatab	le kayak		C2	
OC1			Raft	
OC2			Cataraft	
C1			Other (describe)	):
2. Your whitewa	ater boating skill level fo	or the water	craft used-for-this flow	(Circle appropriate one):
Beginne	er .		. (Advanced	
Novice			Expert	
Intermed	diate			

3.	Please evaluate the boating access for this segment of river (Circle appropriate one):						
	Put-in Access:	easy	moderate	difficult			
	Take-out Access:	easy	moderate	difficult			
4	At "Rock Dam" did you	1 (Circle appro	prieta racnonco):				

Dam' did you (Circle appropriate response): .

	Run Rock Dam	Portage Rock Dam	Paddle alternate canal (avoid Rock Dam,)
5.	Please evaluate this floone number for each c		vel for each of the following characteristics (Circle

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0	1	(2)		
Availability of powerful hydraulics	-2	-1	0	1	2		-
Availability of whitewater play areas	· -2	-1	Ó	1	②.		
Overall whitewater challenge	-2	-1	0	1	(2)		
Safety	-2	-1	0	1	<u>(2)</u>		
Aesthetics	-2	-1	0	1	2)		
Length of run	-2	-1	0	1	(Ž)		
Number of portages	-2	-1	0	1	<b>②</b>	•	
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	0	1	(2)		-

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
11190	5000	a-3	-2	-1	0	1	(2)		

7.	Are you likely to return	for future boating	in the Turners Falls bypass	at this flow? (Circle one)
	Definitely no	Possibly	Probably	Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

	**************************************
This flow rates at Class:	11

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.



Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

Beginner		Advanced	
Novice		Expert	
Intermediate			
10. Relative to this flow, would y enjoyable recreation experience	ou consider the minimuce) to be higher, lower,	m acceptable flow (enou or about the same as this	gh flow for an flow? Circle one
Much lower		Higher	
Lower		Much higher	•
No change			
11. Relative to this flow, would ye about the same as this flow?	ou consider the optimur Circle one	n flow for this type of tri	p to be higher, lower, o
Much lower		Higher	
Lower No change		Much higher	
13. Using site numbers or location difficulty (using the Internatio			sections and rate their
Site numbers/Locations <sup>1</sup>	och Dam		Rating
14. Estimate the number of hits, st anything and did you have to s			w (i.e., did you hit
Number of hits (but did not sto	op) .	_	0
Number of hits with stops (did	not have to get out of b	ooat) _	0_
Number of hits with stops (had	l to get out of boat to co	ontinue)	0_
Number of portages			<u>O</u>

or

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15.	Using site numbers/locations on the map provided, the difficulty of the portages (for your type of water			ections you por	taged and rate
	Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	no portage	1	2	3	. 4 .
	¥	1	2	3	4
		1	2	3	4
	Did you experience any difficulties (e.g., pinned, wi (e.g., downed trees, woody growth in the river bed) description and location of these experiences or ider Difficulty	during y	your run at t sks	his flow? Prov	vide a brief
	Provide any additional comments about this flow be numbers/locations to identify specific locations.		_		1/0 -
	great flow - 2 world di	~ \	1 /	O VOTION	TT.

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#### SINGLE FLOW EVALUATION FORM

### Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Flow 3 5000 cfs Date/time 7/26/14 8:3  Flow 4 cfs Date/time  Flow 5, if applicable  Flow 6, if cfs Date/time	Flow 1		cfs	Date/time	
Flow 4 cfs Date/time  Flow 5, if applicable  Flow 6, if applicable  Watercraft used (Circle appropriate one):  Hard shell kayak Stand up paddle board  Inflatable kayak C2  Raft  OC2 Cataraft  C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced	Flow 2		cfs	Date/time	
Flow 4 cfs Date/time  Flow 5, if applicable  Flow 6, if applicable  Watercraft used (Circle appropriate one):  Hard shell kayak Stand up paddle board  Inflatable kayak C2  Raft  OC2 Raft  OC2 Cataraft  C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner Advanced	Flow 3	5000.	cfs	Date/time 7/20/10/8	?
Flow 5, if applicable  Flow 6, if applicable  Watercraft used (Circle appropriate one):  Hard shell kayak  Inflatable kayak  C2  Raft  OC2  Cataraft  C1  Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced	Flow 4	ε	cfs	Date/time	
. Watercraft used (Circle appropriate one):  . Hard shell kayak Stand up paddle board Inflatable kayak C2 Raft OC2 Cataraft C1 Other (describe):  . Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one) Beginner . Advanced	Flow 5, if applicable		cfs		
Hard shell kayak  Inflatable kayak  C2  Raft  OC2  Cataraft  C1  Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced	Flow 6, if applicable		cfs	Date/time	
OC2 Cataraft C1 Other (describe): Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one) Beginner Advanced	-				
OC2 Cataraft C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced			te one):	Stand up paddle board	
C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner . Advanced	. Hard s	shell kayak	te one):	~ ~	
Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced	. Hard s	shell kayak	te one):	C2	
Beginner . Advanced	. Hard s	shell kayak	te one):	C2 Raft	
	. Hard s Inflata OC1 OC2	shell kayak	te one):	C2 Raft Cataraft	
Novice Expert	. Hard s Inflata OC1 C1	shell kayak able kayak		C2 Raft Cataraft Other (describe):	opriate one):
	. Hard s Inflata OC1 OC2 C1 Your white	shell kayak able kayak Sable kayak water boating skill leve		C2 Raft Cataraft Other (describe): rcraft used for this flow (Circle appr	opriate one):

	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	ı (Circle approp	oriate response): .	•	
					-
	( Run Rock Dam	Portage Ro	ock Dam (Pado	dle alternate canal (avoid Rock Dam;)	)
			and a	and the second s	
5.	Please evaluate this flox	w for your craft	and skill level for	each of the following characteristics to	C

3. Please evaluate the boating access for this segment of river (Circle appropriate one):

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0		2		
Availability of powerful hydraulics	-2	-1	0	1	2		-
Availability of whitewater play areas	-2	-1	ó		2 .		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0_	4	2		
Aesthetics	-2	-1	0	1	2		
Length of run	-2	-1	0		2		
Number of portages	-2	-1	0	1	2	•	
Boating instruction	-2	-1	0		2		_
Overall Rating	-2	-1	0	1	(2)		

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
1/20/14	50DV	エーガニ	-2	-1	0	(1)	2		

7. Ar	e you likely to returr	for future b	oating in the	Turners Falls	bypass at this	flow? (	Circle one
-------	------------------------	--------------	---------------	---------------	----------------	---------	------------

Definitely no

Possibly

Probably

Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

	cue is often difficult even for experts. A very reliable eskimo rexperience, and practiced rescue skills are essential.
9. What skill level does a paddler nee	ed to safely paddle the bypass at this flow? (Circle one)
Beginner	Advanced
Novice	Expert
Intermediate	
	onsider the minimum acceptable flow (enough flow for an o be higher, lower, or about the same as this flow? Circle one
Much lower	Higher
	Much higher
Lower	Much higher
No change	Much ingher
No change	onsider the optimum flow for this type of trip to be higher, lower
No change  1. Relative to this flow, would you co	onsider the optimum flow for this type of trip to be higher, lower
No change  1. Relative to this flow, would you coabout the same as this flow? Circle	onsider the optimum flow for this type of trip to be higher, lower e one
No change  1. Relative to this flow, would you coabout the same as this flow? Circle  Much lower	onsider the optimum flow for this type of trip to be higher, lower e one Higher
No change  11. Relative to this flow, would you co about the same as this flow? Circle Much lower  Lower  No-change	onsider the optimum flow for this type of trip to be higher, lower e one  Higher  Much higher  ease identify challenging features, rapids or sections and rate the
No change  1. Relative to this flow, would you co about the same as this flow? Circle  Much lower  Lower  No-change  3. Using site numbers or locations, pl	onsider the optimum flow for this type of trip to be higher, lower e one  Higher  Much higher  ease identify challenging features, rapids or sections and rate the

Number of hits (but did not stop) .

Number of portages

Number of hits with stops (did not have to get out of boat)

Number of hits with stops (had to get out of boat to continue)

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Plac	ce site numbers/	location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult	
			1	2	3	. 4 .	
<del>lede Ac-</del>		4.4.	1	2	3	4	
			1	2	3	4	
(e.g. desc	., downed trees,	any difficulties (e.g., pinned, we woody growth in the river bed) ation of these experiences or ider	during	your run at t isks			
(e.g. desc	., downed trees, cription and loca	woody growth in the river bed)	during	your run at t isks	this flow? Pro		-
(e.g. desc	., downed trees, cription and loca	woody growth in the river bed) ation of these experiences or ider	during	your run at t isks	this flow? Pro		-
(e.g. desc	eription and local cription and local culty	woody growth in the river bed) ation of these experiences or ider and comments about this flow be o identify specific locations.	during y	your run at tisks  Lu  —  —  necessary, p	chis flow? Pro-	vide a brief	-
(e.g. desc	eription and local cription and local culty	woody growth in the river bed) ation of these experiences or ider	during y	your run at tisks  Lu  —  —  necessary, p	chis flow? Pro-	vide a brief	-

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#### SINGLE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Flow 1	cfs	Date/time	
Flow 2	cfs	Date/time	
Flow 3	Cfs cfs	Date/time	7/20-9am
Flow 4	cfs	Date/time	, ,
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
W. C. L(C)	• .		***************************************
Watercraft used (Circle : . Hard shell kayak	appropriate one):	Stand up pad	dle board
	appropriate one):	Stand up pad C2	dle board
Hard shell kayak	appropriate one):		dle board
Hard shell kayak Inflatable kayak	appropriate one):	C2	dle board
Hard shell kayak Inflatable kayak OC1	appropriate one):	C2 Raft	
Hard shell kayak Inflatable kayak OC1 OC2 C1		C2 Raft Cataraft Other (descri	
Hard shell kayak Inflatable kayak OC1 OC2 C1		C2 Raft Cataraft Other (descri	be):
Hard shell kayak Inflatable kayak OC1 OC2 C1 Your whitewater boating		C2 Raft Cataraft Other (describeraft used for this flo	be):

Put-in Access:	easy	moderate	difficult
Take-out Access:	easy	moderate	difficult

Portage Rock Dam

3. Please evaluate the boating access for this segment of river (Circle appropriate one):

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam 5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

> If unacceptable, was flow:

Paddle alternate canal (avoid Rock Dam,)

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0	1	(é)		
Availability of powerful hydraulics	-2	-1	0	E	2		
Availability of whitewater play areas	-2	-1	ó	1	2		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	(1)	2		
Aesthetics	-2	-1	0	(1)	2		· · · · · · · · · · · · · · · · · · ·
Length of run	-2	-1	0	<i>(</i> 1 )	2		
Number of portages	-2	-1	0	1	(2)		
Boating instruction	-2	-1	0	1	/2		
Overall Rating	-2	-1	0	1	(2)		-

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20) 900	(500)		-2	-1	0	1	/2		

7.	Are you likely to retu	urn for future boating in	n the Turners Falls bypass	at this flow? (Circle one)
	Definitely no	Possibly	Probably	Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:	

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9.	What skill level does a paddler i	need to safely paddle the bypass at this flow? (Circle one)
	Beginner	Advanced
•	Novice	Expert
	Intermediate	
10		consider the minimum acceptable flow (enough flow for an to be higher, lower, or about the same as this flow? Circle one
	Much lower	Higher
	Lower	Much higher
	No change	
11.	Relative to this flow, would you about the same as this flow? Cir	consider the optimum flow for this type of trip to be higher, lower, or cle one
	Much lower	Higher
	Lower	Much higher
13.	No change Using site numbers or locations, difficulty (using the Internationa	please identify challenging features, rapids or sections and rate their  Whitewater Scale at this flow)
14.	Site numbers/Locations  Put-in - left of  Below Mid-Carel F  Reck Devot hits; stop	Rating  Some Satisfy Led Contester The Satisfy South and at this flow (i.e., did you hit p or get out of the boat to continue?).
	Number of hits (but did not stop)	· ·
	Number of hits with stops (did no	ot have to get out of boat)
	Number of hits with stops (had to	get out of boat to continue)
	Number of portages	<u>O</u>
Λ`	116 (1- and 0 0)	-1 A- That A-A

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

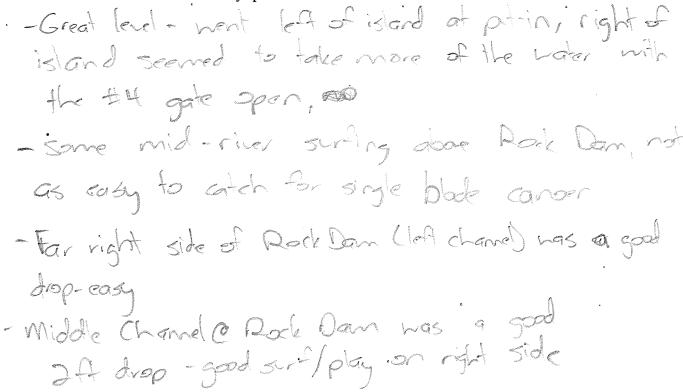
15.	. Using site numbers/locations on the map provided, identify rapids or sections you portaged and rate
	the difficulty of the portages (for your type of watercraft at this flow)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
$ \sqrt{\rho/A}$	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4

16. Did you experience any difficulties (e.g., pinned, wrapped boat, swam) or identify any specific risk (e.g., downed trees, woody growth in the river bed) during your run at this flow? Provide a brief description and location of these experiences or identified risks.

Difficulty		® Code	Location	
		_ (/ \		
	X	WH		

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.



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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run: 7/20/18 AM

Name: 1<en Glusman

Flow 1	5001	cfs	Date/time 9/20/19 AM	
Flow 2		cfs	Date/time	
Flow 3	¢	cfs	Date/time	
Flow 4		cfs	Date/time	
Flow 5, if applicable		cfs	Date/time	
Flow 6, if		cfs	Date/time	
pplicable				
	(Circle appropriate o	one):	Stand up paddle board	
Watercraft used (	kayak	one):	Stand up paddle board C2	
Watercraft used (	kayak	one):		
Watercraft used ( Hard shell k	kayak	one):	C2	
Watercraft used ( Hard shell kan be to the control of the control	kayak	one):	C2 Raft	
Watercraft used ( Hard shell kan be of the open of the	kayak ayak		C2 Raft Cataraft	priate one
Watercraft used ( Hard shell kan be of the open of the	kayak ayak		C2 Raft Cataraft Other (describe):	priate one

3.	Please evaluate the boati	ng access for	this segment of river (Ci	rcle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easy	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam

Portage Rock Dam

Paddle alternate canal (avoid Rock Dam,)

5. Places avaluate this flow for your creft and skill level for each of the fall arises of

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	2		
Availability of challenging technical boating	-2	-1	0	1	2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2	-1	(0)	1	2 .		
Overall whitewater challenge	-2	-1	0	1	2	- 144	
Safety	-2	-1	(O)	1	2		
Aesthetics	-2	-1	(0)	1	2		
Length of run	-2	<i>(</i> -1 <i>)</i>	0	1	2		***
Number of portages	-2	-1	0	1	2		
Boating instruction	-2	-1	<u></u>	1	2		
Overall Rating	-2	-1	(0)	1	2		

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
1200	3001	2	-2	-1	0	/ 1/	2		

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)

Definitely no	Possibly	Probably	Definitely yes
			• •

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:	2
imo now rates at Class.	

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10	. Relative to this flow, would you consider the minimum enjoyable recreation experience) to be higher, lower,	m acceptable flow (enough flow or about the same as this flow)	ow for an? Circle one
	Much lower	Higher	
	Lower	Much higher	ć
	No change		
11.	Relative to this flow, would you consider the optimum about the same as this flow? Circle one	n flow for this type of trip to b	e higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	No change		
13.	Using site numbers or locations, please identify challe difficulty (using the International Whitewater Scale at	enging features, rapids or section this flow).	ons and rate their
	Site numbers/Locations¹  Port Dam		Rating
14.	Estimate the number of hits, stops, boat drags, and por anything and did you have to stop or get out of the boat	tages you had at this flow (i.e	, did you hit
	Number of hits (but did not stop)	0	<del></del>
	Number of hits with stops (did not have to get out of b	oat)	
	Number of hits with stops (had to get out of boat to co	ntinue)	_
	Number of portages	<u> </u>	

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	1	2	3	. 4 .
	1	2	3	4
. Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed)				
Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden Difficulty	apped b	ooat, swam) vour run at t sks	or identify any	specific risk
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	apped b	ooat, swam) vour run at t sks	or identify any	specific risk
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	apped b	ooat, swam) vour run at t sks	or identify any	specific risk

numbers/locations to identify specific locations.

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run: $\frac{\int c}{\int c}$	m July 20, 2016	-/		
Name: Cha	low 2			
	,		ı	
Indicate which	flow release this survey corn	responds	to (check appropriate box)	:
Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	5000	cfs		July 20
Flow 4		cfs		
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable		cfs	Date/time	
1. Watercraft ı	used (Circle appropriate one	e):		<u></u>
. Hard s	hell kayak		Stand up paddle boa	ard
Inflata	ble kayak		C2	
(OC1)	)		Raft	
OC2			Cataraft	
C1			Other (describe):	
2. Your whitev	water boating skill level for	the water	craft used for this flow (Ci	rcle appropriate one):
Beginn	ner .		Advanced	
Novice			Expert	
Interme	ediate)			
-				

3. Please evaluate the boating access for this segment of river (Circle appropriate one):

Put-in Access:

easy

moderate

difficult

Take-out Access:

easy

moderate

difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam

Portage Rock Dam

Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

If unacceptable, was flow:

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of							
challenging	-2	-1	0	(1)	2		
technical boating							
Availability of							
powerful	-2	-1	0	(1)	2		•
hydraulics							
Availability of	•		٠				
whitewater play	-2	-1	0	$\begin{pmatrix} 1 \end{pmatrix}$	2 .		
areas	4						
Overall							
whitewater	-2	-1	0	(1)	2		
challenge							
Safety	-2	-1	0	1_	2)		
Aesthetics	-2	-1	0	(D)	2		
Length of run	-2	-1	2	(1)	2		
Number of	-2	-1	$\left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}{c} \left(\right) \end{array}\right) \end{array}\right) \end{array}\right)$	1	2		15,744
portages	-2	-1	$\begin{pmatrix} 0 \end{pmatrix}$	1	2		
Boating	-2	-1	0	1	2		
instruction	-2	-1	U	i	2		
Overall Rating	-2	-1	0	( i)	2		

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ran on for for for

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
	5000	11	-2	-1	0	(1)	2		

7.	Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)							
	Definitely no	Possibly	Probably	Definitely yes				

	Based on the Internation difficulty of the river at					
	this flow)	- for	The line	25 I	tool	
Thi	s flow rates at Class:	11 (	ock dam	IV)	)	· ·

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts	s. A very reliable eskimo roll
proper equipment, extensive experience, and practiced rescue skills	

Э.	what skill level does a paddler fleed to safety paddle	the bypass at this flow? (C	ircle one)
	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10	. Relative to this flow, would you consider the minimu enjoyable recreation experience) to be higher, lower,	m acceptable flow (enough or about the same as this fl	n flow for an low? Circle one
	Much lower	Higher	
	Lower	Much higher	¢
	No change		
11.	Relative to this flow, would you consider the optimum about the same as this flow? Circle one	n flow for this type of trip	to be higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	(No change)		
13.	Using site numbers or locations, please identify challe difficulty (using the International Whitewater Scale at		ections and rate their
	Site numbers/Locations <sup>1</sup>		Rating
	rock dam		70
14.	Estimate the number of hits, stops, boat drags, and por anything and did you have to stop or get out of the boat	tages you had at this flow at to continue?).	(i.e., did you hit
	Number of hits (but did not stop) .		
	Number of hits with stops (did not have to get out of b	oat)	3
	Number of hits with stops (had to get out of boat to co	ntinue) <u>(</u>	2
	Number of portages		<u></u>

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

	mbers/locatio		for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
NO	porta	1925	<del> </del>	1	2	3	. 4 .
				1	2	3	4
				1	2	3	4
(e.g., downe	d trees, wood and location o	y growth in th	he river bed) (	luring y	your run at i isks	or identify any this flow? Pro	vide a brief
Difficulty	none				L	ocation	
	VIOVO	•					
	7/073.	•					
	V)OVQ.		The second of th				
		•					
	V) 0 V 🗴				 		
Provide any		,	t this flow bel	ow If	necessary	nleace use site	
		nments abou		ow. If	necessary,	please use site	
numbers/loc	additional cor	nments abou	ocations.			٠	7
numbers/loc	additional cor	nments abou	ocations.			please use site  nany  er to	hards.
numbers/local	additional cor ations to ident lev	nments aboutify specific le	ocations. Opene	d =5 -	yr - eas,	٠	

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run: 7/20/14

Name: Jim Michaud

Flow 1	cfs	Date/time	
Flow 2	cfs	Date/time	
Flow 3	5000 cfs	Date/time	7/20/14
Flow 4	cfs	Date/time	
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
. Watercraft	used (Circle appropriate one):		
	shell kayak	Stand up pado	ile board
. Hard s	4	Stand up pado	lle board
. Hard s	shell kayak		ile board
. Hard s	shell kayak	C2	ile board
. Hard s Inflata	shell kayak	C2 Raft Cataraft	alle board
Hard s Inflata OC1 OC2	shell kayak	C2 Raft Cataraft Other (describ	pe):
Hard s Inflata OC1 OC2	shell kayak ible kayak ) water boating skill level for the wate	C2 Raft Cataraft Other (describ	pe):
Hard s Inflata OC1 OC2 C1 . Your white	shell kayak  ble kayak  water boating skill level for the wate	C2 Raft Cataraft Other (describercraft used for this flo	pe):

3.	Please evaluate the boating access for this segment of river (Circle appropriate one):							
	Put-in Access:	easy	moderate	difficult				
	Take-out Access:	easv	moderate	difficult				

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam	Portage Rock Dam	Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0	1	2		19
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2 ·	-1	(i)	1	2 .		
Overall whitewater challenge	-2	-1	0	1	2		
Safety	-2	-1	0	1	(2)		······································
Aesthetics	-2	-1	0	1	2		
Length of run	-2	-1	0	(D)	2		
Number of portages	-2	-1	0	1	2	•	
Boating instruction	-2	-1	0	Û	2		
Overall Rating	-2	-1	0	(1)	2		•

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20	5000	all policy	-2	-1	0	(1)	2		

7.	Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)					
	Definitely no	Possibly	Probably	Definitely yes		
8.				ould you rate the whitewater whitewater classifications for		
Thi	s flow rates at Class: _	3		•		

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
   Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10.	. Relative to this flow, would yo enjoyable recreation experienc	ou consider the minimum acceptable flow e) to be higher, lower, or about the same	(enough flow for an as this flow? Circle one
	Much lower	Higher	
	Lower	Much higher	¢
	No change		
11.	Relative to this flow, would yo about the same as this flow? C	u consider the optimum flow for this type Circle one	e of trip to be higher, lower, o
	Much lower	Higher	
	Lower	Much higher	
	No change	•	
13.	Using site numbers or locations difficulty (using the Internation	s, please identify challenging features, rap nal Whitewater Scale at this flow).	pids or sections and rate their
c	Site numbers/Locations 1  First rapid = c  The rest of the ri	lace 3 ver = class 2	Rating 3
14.		ops, boat drags, and portages you had at the cop or get out of the boat to continue?).	his flow (i.e., did you hit
	Number of hits (but did not stop	p) .	
	Number of hits with stops (did	not have to get out of boat)	0
	Number of hits with stops (had	to get out of boat to continue)	O
	Number of portages		
			•

or

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Place site numbers/location and	reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
4/4		1	2	3	. 4 .
		1	2	3	4
		1	2	3	4
<ol> <li>Did you experience any difficul (e.g., downed trees, woody grow description and location of these</li> </ol>	vth in the river bed)	during y	your run at t	his flow? Pro	vide a brief
-	or rue.	tirica i		.•	
Difficulty	or race	unica n		ocation	
-				ocation	
-				ocation	
-				ocation	
Difficulty	s about this flow bel				
Difficulty	s about this flow belecific locations.	ow. If	L necessary, j	please use site	

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### SINGLE FLOW EVALUATION FORM

# Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:  $\frac{7/20}{14}$ 

ow 1	1000	cfs	Date/time	
ow 2	1	cfs	Date/time	
low 3	5000	cfs	Date/time 7/20	Morning
Flow 4	ε	cfs	Date/time	<i>J</i> .
Flow 5, if applicable		cfs	Date/time	
Flow 6, if		cfs	Date/time	
pplicable				
Watercraft t	sed (Circle appropriate	one):	Stand up paddle b	oard
Watercraft to Hard si		one):	C2	oard
Watercraft to Hard si Inflatal	hell kayak	one):	C2 Raft	oard
Watercraft to Hard si Inflatal OC1 OC2	hell kayak	one):	C2 Raft Cataraft	
Watercraft to Hard si Inflatal OC1 OC2	hell kayak ble kayak		C2 Raft Cataraft Other (describe):	
Hard si Inflatal OC1 OC2 C1	hell kayak ble kayak vater boating skill level		C2 Raft Cataraft	

3.	Please evaluate the boati	ng access for	r this segment of river (C	ircle appropriate one):	
	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	(Circle appre	opriate response): .Ran	Rock Dan in someone els	es Open
	Run Rock Dam	Portage 1	Rock Dam Paddle al	Rock Dam in someone els enoe. Not in Co ternate canal (avoid Rock Dam,)	·
5.	Please evaluate this flow	for your cra	ft and skill level for each	of the following characteristics (Circ	le

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	(1)	. 2		
Availability of challenging technical boating	-2	-1	0		2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	· -2	-1	0	1	2 . *		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	(1)	2		
Aesthetics	-2	-1	_0	(1)	2		***************************************
Length of run	-2	-1	(0)	1	2		· · · · · · · · · · · · · · · · · · ·
Number of portages	-2	-1	0	1	2		
Boating instruction	-2	-1	0	1)	2		
Overall Rating	-2	-1	0	(1)	2		

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20	5000	C1, 2+	-2	-1	0	(1)	2		

Definitely no	Possibly	Probably	Definitely yes
		le (defined below), how wor opriate, provide a range of w	

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)

This flow rates at Class: 2+ Except For Rock Dam.

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
•	Intermediate		
10	. Relative to this flow, would you consider the minimum enjoyable recreation experience) to be higher, lower,	, <u> </u>	
	Much lower	Higher	
	Lower	Much higher	
	No change		
11.	Relative to this flow, would you consider the optimum about the same as this flow? Circle one	m flow for this type of trip to be higher, lower, or	
	Much lower	Higher	
	Lower	Much higher	
,	No change		
٠ 13.	Using site numbers or locations, please identify challe difficulty (using the International Whitewater Scale at		
	· · · · · ·	1 a subt dia	H
At this le	Site numbers/Locations'	Rock Day This Was 3 - Rating alongs	ide
, , , , , ,	Site numbers/Locations1 vel, a new easier route opened up at	LS Par	20
	Estimate the number of hits, stops, boat drags, and por anything and did you have to stop or get out of the boat	ortages you had at this flow (i.e., did you hit	
	Number of hits (but did not stop)	<u>O</u>	
	Number of hits with stops (did not have to get out of b	boat) <u>*O</u>	
	Number of hits with stops (had to get out of boat to co	ontinue)	
	Number of portages Scouted at Roc	-Le Dan	
		¢	

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15. Using site numbers/locations on the map provided, identify rapids or sections you portaged and rate the difficulty of the portages (for your type of watercraft at this flow)

Place site numbers/location and reason for portage		Difficult	Moderately Difficult	Extremely Difficult
Scouted Fromisland at Rock Dambut did not 1	Portolgo	2	3	. 4 .
	1	2	3	4
	1	2	3	4

16. Did you experience any difficulties (e.g., pinned, wrapped boat, swam) or identify any specific risk (e.g., downed trees, woody growth in the river bed) during your run at this flow? Provide a brief description and location of these experiences or identified risks.

Difficulty	Location
Cartner and I flipped in the C2 due to misicommunication and lack of practice together.	Directly at the Put-In in the

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

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#### SINGLE FLOW EVALUATION FORM

# Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Flow 1		cfs	Date/time		
Flow 2		cfs	Date/time		
low 3	Cypai	cfs	Date/time	7/20	9:30
low 4		cfs	Date/time		
low 5, if pplicable		cfs	Date/time		
low 6, if		cfs	Date/time		
Lhunnin					
Watercraft	used (Circle appropriat	e one):	Stand up pade	lle board	
Watercraft Hard		e one):	Stand up pade	dle board	
Watercraft Hard	shell kayak	e one):		lle board	
Watercraft Hard s	shell kayak	e one):	C2	lle board	
Watercraft Hard s Inflata	shell kayak	e one):	C2 Raft		
Watercraft Hard s Inflata OC1 OC2 C1	shell kayak		C2 Raft Cataraft Other (describ	ne):	riate one):
Watercraft Hard s Inflata OC1 OC2 C1	shell kayak ible kayak water boating skill leve		C2 Raft Cataraft Other (describ	ne):	riate one):

3.	Please evaluate the boat	ing access for	this segment of river (C	Circle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easy	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam Portage Rock Da

Portage Rock Dam Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable.	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	/2)		
Availability of challenging technical boating	-2	-1	0	(1)	2		
Availability of powerful hydraulics	-2	-1	0		2		
Availability of whitewater play areas	-2	-1	ó	1	2 .		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	(1)	2		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	1	(2)		
Number of portages	-2	-1	0		2	•	.,,,,,
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	0	(1)	2		•

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
		11	-2	-1	0	1	2		

		•	· ·	` ,
	Definitely no	Possibly	Probably	Definitely yes
8.				uld you rate the whitewater whitewater classifications for

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)

This flow rates at Class:	

this flow)

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk.
  Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex
  demanding routes. Rapids may continue for long distances between pools, demanding a high level
  of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the
  scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential. 9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10.	Relative to this flow, would you co- enjoyable recreation experience) to	nsider the minimum acceptable flow (er be higher, lower, or about the same as t	nough flow for an this flow? Circle one
	Much lower	Higher	
	Lower	Much higher	•
	No change		ser-
11.	Relative to this flow, would you con about the same as this flow? Circle	nsider the optimum flow for this type of c one	f trip to be higher, lower, o
	Much lower	Higher	
	Lower	Much higher	
	No change		
13.	Using site numbers or locations, ple difficulty (using the International W	ease identify challenging features, rapids //hitewater Scale at this flow).	s or sections and rate their
	Site numbers/Locations1 Midely channel of	Frock day by pacs	Rating
14.	Estimate the number of hits, stops, be anything and did you have to stop or	boat drags, and portages you had at this or get out of the boat to continue?).	flow (i.e., did you hit
	Number of hits (but did not stop)		0
	Number of hits with stops (did not h	nave to get out of boat)	<i>O</i>
	Number of hits with stops (had to ge	et out of boat to continue)	<u>O</u>
	Number of portages		
			c

or

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

	Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extren Diffic
		1	2	3	. 4
		1	2	3	4
		1	2	3	4
	Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed) of description and location of these experiences or iden	during y	your run at	or identify any this flow? Pro	y specific vide a br
	Difficulty		L	ocation	
	Provide any additional comments about this flow belnumbers/locations to identify specific locations.	ow. If	necessary,	please use site	
	numbers/locations to identify specific locations.				1
	numbers/locations to identify specific locations.				liro
L	numbers/locations to identify specific locations.	(x, t)	Unid	ones to	hro.
	numbers/locations to identify specific locations.  Loso of provide a mon  upper rapids (river right  at 3500 was flowing	n + t	Unid Less Unon	ons to flow shith	e Vi
	numbers/locations to identify specific locations.	n + t	Unid Less Unon	ons to flow shith	e Vi
	numbers/locations to identify specific locations.  Loso of provide a mon  upper rapids (river right  at 3500 was flowing	(x, t)	Unid Less Liver	ones to flow show the	e vi

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889

# Whitewater Controlled Flow Study

Flow 1		cfs	Date/time	A
Flow 2		cfs	Date/time	
Flow 3	5,000	cfs	Date/time 7/20/2014	9:30 AM
Flow 4	د	cfs	Date/time	£
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable		cfs	Date/time	A-1-A-1-A-1-A-1-A-1-A-1-A-1-A-1-A-1-A-1
	used (Circle appropriate one	e):		
. Watercraft	used (Circle appropriate one	e):	Stand up paddle boar	rd
. Watercraft  Hard s		e):	Stand up paddle boar	rd
. Watercraft : . Hard s Inflata	hell kayak	e):	C2 Raft	rd
. Watercraft : . Hard s . Inflata . OC1 . OC2	hell kayak	e):	C2	rd
. Watercraft Hard s Inflata	hell kayak	e):	C2 Raft	
. Watercraft . Hard s Inflata OC1 OC2 C1	hell kayak ble kayak		C2 Raft Cataraft	
. Watercraft Hard s Inflata OC1 OC2 C1	hell kayak ble kayak water boating skill level for		C2 Raft Cataraft Other (describe):	

3.	Please evaluate the boati	ng access for	this segment of river (C	Sircle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easy	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam	Portage Rock Dam	Paddle alternate canal (avoid Rock Dam,)
		, , , , , , , , , , , , , , , , , , , ,

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	(1)	2		
Availability of challenging technical boating	-2	-1	0	1	2		
Availability of powerful hydraulics	-2	(-1)	0	1	2	/	
Availability of whitewater play areas	-2 ·	-1	ó	1	2 .	/	***
Overall whitewater challenge	-2	-1	0	1	2		
Safety	-2	-1	0		2		
Aesthetics	-2	-1	0_	(1)	2		
Length of run	-2	-1	(Q)	1	2		· · · · · · · · · · · · · · · · · · ·
Number of portages	-2	-1	(6)	1	2		
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	70	1	2		

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
NASIN VW	5,600	正十	-2	-1	0	1	2		

7.	Are you likely	to return fo	or future	boating in the	Turners Falls	bypass at	this flow?	(Circle one)
----	----------------	--------------	-----------	----------------	---------------	-----------	------------	--------------

Definitely no Possibly

Probably

Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

	nd rescue is often difficult even for experts. A very reliable eskimo roll, sive experience, and practiced rescue skills are essential.						
9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)							
Beginner	Advanced						
Novice	Expert						
Intermediate							
	you consider the minimum acceptable flow (enough flow for an ace) to be higher, lower, or about the same as this flow? Circle one						
Much lower	Higher						
Lower	Much higher						
No change							
11. Relative to this flow, would y about the same as this flow?	you consider the optimum flow for this type of trip to be higher, lower, or Circle one						
Much lower	Higher						
Lower	Much higher						
No change							
13. Using site numbers or locatio difficulty (using the Internation	ns, please identify challenging features, rapids or sections and rate their onal Whitewater Scale at this flow).						
Site numbers/Locations <sup>1</sup>	Rating						
Rock Dam							
Middle Chame	I above Rock Dam River Right II feature (note						
14. Estimate the number of hits.*s	stops, boat drags, and portages you had at this flow (i.e., did you hit						

14. Estimate the number of hits, stops, boat drags, and portages you had at this flow (i.e., did you hit anything and did you have to stop or get out of the boat to continue?).

Number of hits (but did not stop)

Number of hits with stops (did not have to get out of boat)

Number of hits with stops (had to get out of boat to continue)

Number of portages

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15. Using site numbers/locations on the map provided, identify rapids or sections you portaged and rate the difficulty of the portages (for your type of watercraft at this flow)

Place site numbers/location and reason for portage		Slightly Difficult	Moderately Difficult	Extremely Difficult
	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4

16. Did you experience any difficulties (e.g., pinned, wrapped boat, swam) or identify any specific risk (e.g., downed trees, woody growth in the river bed) during your run at this flow? Provide a brief description and location of these experiences or identified risks..

Difficulty		Location
Class II	Sticky River wide hole. A. Not	Middle Chanel above Kack Da
180	bad though.	

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

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### SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889

### Whitewater Controlled Flow Study

Date of run:	7/20/14 eve Bria				
Name: 57	eve Bria	lae	: \$		
american and a second			t .		
Indicate which f	flow release this survey corr	responds	to (check appropriate box	):	
Flow 1		cfs	Date/time		
Flow 2		cfs	Date/time		
Flow 3	5000	cfs	Date/time	7/20,	911
Flow 4	Ł.	cfs	Date/time		
Flow 5, if		cfs	Date/time		
applicable					
Flow 6, if applicable		cfs	Date/time		
иррисион	Management				
Watercraft u	sed (Circle appropriate one)	):			
. Hard sl	nell kayak		Stand up paddle bo	oard	
Inflatal	ole kayak		C2		
OC1			Raft		
OC2			Cataraft		
C1			Other (describe):		_
2. Your whitew	ater boating skill level for t	he water	craft used for this flow (C	ircle appropriat	e one):
Beginn	er .		. Advanced		
Novice			Expert		
Interme	ediate				

	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	ı (Circle approp	oriate response): .		
	Run Rock Dam	Portage Ro	ock Dam Paddle al	lternate canal (avoid Roc	k Dam,)

3. Please evaluate the boating access for this segment of river (Circle appropriate one):

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	$\left(2\right)$		
Availability of challenging technical boating	-2	1	0		2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2	-1	Ö		2		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	$\bigcirc$	2		
Length of run	-2	-1	0	<u>(1)</u>	2		****
Number of portages	-2	-1	0)	1	2		Table .
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	0	1	(2)		

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20/911	5000		-2	-1	0	1	2		

7.	Are you likely to return	n for future boating i	n the Turners Falls bypass at	this flow? (Circle one)
	Definitely no	Possibly	Probably	Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

TIL: Classic Classic	77-	(IV)	
This flow rates at Class:	-1		

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages or around ledges are often required; large waves or strainers may be present but are easily avoided. Strong eddies and powerful current effects can be found, particularly on large-volume rivers. Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10.	Relative to this flow, would you consider the minimum enjoyable recreation experience) to be higher, lower,	am acceptable flow (enough flow or about the same as this flow?	w for an Circle one
	Much lower	Higher	
	Lower	Much higher	•
	No change		
11.	Relative to this flow, would you consider the optimus about the same as this flow? Circle one	m flow for this type of trip to be	higher, lower, or
	Much lower (	Higher	
	Lower	Much higher	
	No change		
13.	Using site numbers or locations, please identify challed difficulty (using the International Whitewater Scale as		ns and rate their
	Site numbers/Locations <sup>1</sup>		Rating
14.	Estimate the number of hits, stops, boat drags, and po anything and did you have to stop or get out of the bo	rtages you had at this flow (i.e., at to continue?).	did you hit
	Number of hits (but did not stop)	<i>D</i>	_
	Number of hits with stops (did not have to get out of l	poat)	_
	Number of hits with stops (had to get out of boat to co	ontinue)/	_
	Number of portages		_
			•

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15.	. Using site numbers/locations on the map provided, identify rapids or sections you portaged and rate
	the difficulty of the portages (for your type of watercraft at this flow)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4

16. Did you experience any difficulties (e.g., pinned, wrapped boat, swam) or identify any specific risk (e.g., downed trees, woody growth in the river bed) during your run at this flow? Provide a brief description and location of these experiences or identified risks..

Difficulty	Location
struggled to exit surf.	
at bottom of small ledge,	
middle channel above	
Rock Daw	

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

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## SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run: 7-20.14  Name: Tracey Kallman						
Name: Tra	cey Kallman	<u> </u>				
			¢.			
T. 1	CI. I. II.	•				
indicate which	flow release this survey corre	esponds	to (check appropriate box):			
Flow 1		cfs	Date/time			
Flow 2		cfs	Date/time			
Flow 3	5000	cfs	Date/time 7.20.14	900		
Flow 4		cfs	Date/time	6		
Flow 5, if applicable		cfs	Date/time			
Flow 6, if applicable		cfs	Date/time			
1. Watercraft u	used (Circle appropriate one)	):	,			
. Hard si	hell kayak		Stand up paddle boa	rd		
Inflatal	ble kayak		C2			
OC1			Raft			
OC2			Cataraft			
C1			Other (describe):			
2. Your whitev	vater boating skill level for the	he water	craft used for this flow (Cir	cle appropriate one):		
Beginn	er .		Advanced			
Novice			Expert			
Interme	ediate					

3.	Please evaluate the boat	ing access for t	his segment of river (	(Circle appropriate one):	
	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	ı (Circle approp	oriate response):	added with	1 Zoarra
	Run Rock Dam	Portage Ro	ock Dam Paddle	alternate canal (avoid Rock	Dam,)
5.	Please evaluate this flow	v for your craft	and skill level for each	ch of the following character	istics (Circle

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0	1	2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2 ·	-1	ó	1	(2).		
Overall whitewater challenge	-2	-1	0	1	2		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	1	(2)		
Number of portages	-2	-1	0	1	(A)		
Boating instruction	-2	-1	0	1	2		_
Overall Rating	-2	-1	0	1	(, 2)		

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20/14	5000		-2	-1	0	1	(12)		

7.	Are you likely to return	n for future boating	in the Turners Falls bypass	at this flow? (Circle one)
	Definitely no	Possibly	Probably	Definitely yes
8.				ould you rate the whitewater whitewater classifications for
Thi	is flow rates at Class:	·II_	·	•

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting. Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is 'moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskimo roll, proper equipment, extensive experience, and practiced rescue skills are essential.

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10.	Relative to this flow, would you consider the minimus enjoyable recreation experience) to be higher, lower,	m acceptable flow (enough flow or about the same as this flow?	w for an Circle one
	Much lower	Higher	
	Lower	Much higher	•
	No change		
11.	Relative to this flow, would you consider the optimum about the same as this flow? Circle one	n flow for this type of trip to be	higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	No change		
13.	Using site numbers or locations, please identify challe difficulty (using the International Whitewater Scale at	nging features, rapids or sectio this flow).	ns and rate their
	Site numbers/Locations <sup>1</sup> Rock fall 3	Dam	Rating
14.	Estimate the number of hits, stops, boat drags, and por anything and did you have to stop or get out of the boat	tages you had at this flow (i.e., at to continue?).	did you hit
	Number of hits (but did not stop) .		_
	Number of hits with stops (did not have to get out of b	oat)	_
	Number of hits with stops (had to get out of boat to co	ntinue) <u>O</u>	-
	Number of portages		_

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

Place site numbers/location and reason for po	ortage Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
Rock Dam	1	2	3	. 4 .
	1	2	3	4
(e.g., downed trees, woody growth in the rive	r bed) during	your run at		
6. Did you experience any difficulties (e.g., pinn (e.g., downed trees, woody growth in the rive description and location of these experiences  Difficulty	r bed) during	ooat, swam) your run at t iskš	or identify any	specific risk
(e.g., downed trees, woody growth in the rive description and location of these experiences  Difficulty	r bed) during	ooat, swam) your run at t iskš	or identify any	specific risk
(e.g., downed trees, woody growth in the rive description and location of these experiences  Difficulty	er bed) during or identified r	ooat, swam) your run at t iskš	or identify any	specific risk

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run:

Flow 1		cfs	Date/time
Flow 2		cfs	Date/time
Flow 3	5060	cfs	Date/time
Flow 4	¢ c	cfs	Date/time
Flow 5, if applicable		cfs	Date/time
Flow 6, if applicable		cfs	Date/time
Watercraft u	used (Circle appropriate one)	):	
	used (Circle appropriate one)	<b>)</b> :	Stand up paddle board
. Hard s		):	Stand up paddle board C2
. Hard s	hell kayak	):	
. Hard s	hell kayak	):	C2
Hard s Inflata OC1	hell kayak ble kayak	):	C2 Raft
Hard s Inflata OC1 OC2 C1	hell kayak ble kayak		C2 Raft Cataraft Other (describe):
Hard s Inflata OC1 OC2 C1	hell kayak ble kayak • water boating skill level for t		C2 Raft Cataraft
. Hard s Inflata OC1 OC2 C1 Your whitev	hell kayak ble kayak water boating skill level for t		C2 Raft Cataraft Other (describe): rcraft used for this flow (Circle appropriate one)

3.	Please evaluate the boa	ting access for th	is segment of river (	Circle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	(easy)	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam

Portage Rock Dam

Paddle alternate canal (avoid Rock Dam,)

5. Please evaluate this flaw for your greft and skill level for each of the fallowing above to skill level for each of the fallowing above

5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of	_			-			
challenging	-2	-1	0	1	(2)		
technical boating							
Availability of				_	3		
powerful	-2	-1	0	1	2		
hydraulics							
Availability of	٠,	•	۰		3		
whitewater play	-2	-1	0	1	(2/)		
areas					*Land Dellar		
Overall	2	•			737		
whitewater	-2	-1	0	1	(2)		
challenge							
Safety	-2	-1	0	1	_2_		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	1	$\sqrt{2}$ ,		
Number of	-2	-1	0	1	(2)		
portages		-1	0	1	4		
Boating	-2	1	0	1	(A)		
instruction	-2	-1	0	1	2/	İ	
Overall Rating	-2	-1	0	1	(2)		

If unacceptable, was flow:

	Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/ 5000 111 -2 -1 0 1 2	11	5000	111	-2	-1	0	1	(2)		

7.	Are you likely	to return for future	boating in the	Turners Falls bypas	s at this flow?	(Circle one)
----	----------------	----------------------	----------------	---------------------	-----------------	--------------

Definitely no

Possibly

Probably

Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily
  missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

	Swims are dangerous, and rescue is often difficult even for experts. A very reliable eskin proper equipment, extensive experience, and practiced rescue skills are essential.	no roll
9.	What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)	

	Beginner	Advanced	
•	Novice	Expert	
	Intermediate	r	
10.	Relative to this flow, would you consider the minim enjoyable recreation experience) to be higher, lower		
	Much lower	Higher	
	Lower	Much higher	•
	No change		
11.	Relative to this flow, would you consider the optimus about the same as this flow? Circle one	m flow for this type of trip to b	e higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	No change		
13.	Using site numbers or locations, please identify chald difficulty (using the International Whitewater Scale		ons and rate their
	Site numbers/Locations <sup>1</sup>		Rating
	Rock Van		11111
14.	Estimate the number of hits, stops, boat drags, and po anything and did you have to stop or get out of the boat		., did you hit
	Number of hits (but did not stop)		_
	Number of hits with stops (did not have to get out of	boat)	<u>)</u>
	Number of hits with stops (had to get out of boat to c	ontinue)	) 5
	Number of portages		_

<sup>&</sup>lt;sup>1</sup> Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15.	Using site numbers/locations on the map provided, the difficulty of the portages (for your type of water	identify i craft at t	rapids or se his flow)	ections you por	taged and rate
	Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	Rock Dan Chichen	1	2	3	. 4 .
		1	2	3	4
		1	2	3	4
	(e.g., downed trees, woody growth in the river bed) description and location of these experiences or ider Difficulty		skš	his flow? Prov	vide a brief

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# SINGLE FLOW EVALUATION FORM Turners Falls Hydroelectric Project FERC No. 1889 Whitewater Controlled Flow Study

Date of run: 7/20/14

ow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	5000	cfs	Date/time	9:00 AM
Flow 4	ı	cfs	Date/time	
Flow 5, if applicable		cfs	Date/time	
57 6 10				
		cfs	Date/time	
watercraft	used (Circle appropriate shell kayak		Date/time  Stand up paddle b	poard
Watercraft Hard				poard
Watercraft Hard	shell kayak		Stand up paddle b	poard
Watercraft Hard Inflata	shell kayak		Stand up paddle b	poard
Watercraft Hard Inflata	shell kayak		Stand up paddle b C2 Raft	
Watercraft Hard Inflata OC1 OC2	shell kayak able kayak	one):	Stand up paddle b C2 Raft Cataraft	
. Hard Inflata OC1 OC2 C1	shell kayak able kayak water boating skill level	one):	Stand up paddle b C2 Raft Cataraft Other (describe):_	

3.	Please evaluate the boa	ating access for	this segment of river (C	ircle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easv	moderate	difficult

4. At "Rock Dam" did you (Circle appropriate response): .

Run Rock Dam	Portage Rock Dam	Paddle alternate canal (avoid Rock Dam,)
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5. Please evaluate this flow for your craft and skill level for each of the following characteristics (Circle one number for each characteristic).

	Totally unacceptable	Unacceptable	Neutral	Acceptable	Totally acceptable	Too Low	Too high
Navigability	-2	-1	0	1	(2)		
Availability of challenging technical boating	-2	-1	0	٥	2		
Availability of powerful hydraulics	-2	-1	0	1	2		
Availability of whitewater play areas	-2	-1	ó	Ō	2 .		
Overall whitewater challenge	-2	-1	0	1	2		
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0		2		
Number of portages	-2	-1	<b>(3)</b>	1	2	*	
Boating instruction	-2	-1	0	1	2		_
Overall Rating	-2	-1	0	1	(2)		-

If unacceptable, was flow:

Release Date/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/26/14	5000	**************************************	-2	-1	0	(1)	2		

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circle one)

Definitely no

Possibly

Probably

Definitely yes

8. Based on the International Whitewater Scale (defined below), how would you rate the whitewater difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

This flow rates at Class:

- Class I Fast moving water with riffles and small waves. Few obstructions, all obvious and easily missed with little training. Risk to swimmers is slight; self-rescue is easy.
- Class II Straightforward rapids with wide, clear channels which are evident without scouting.
  Occasional maneuvering may be required, but rocks and medium-sized waves are easily missed by
  trained paddlers. Swimmers are seldom injured and group assistance, while helpful is seldom
  needed.
- Class III Rapids with moderate, irregular waves which may be difficult to avoid and which can
  swamp an open canoe. Complex maneuvers in fast current and good boat control in tight passages
  or around ledges are often required; large waves or strainers may be present but are easily avoided.
  Strong eddies and powerful current effects can be found, particularly on large-volume rivers.
  Scouting is advisable for inexperienced parties. Injuries while swimming are rare; self-rescue is
  usually easy but group assistance may be required to avoid long swims.
- Class IV Intense, powerful but predictable rapids requiring precise boat handling in turbulent water. Depending on the character of the river, it may feature large, unavoidable waves and holes or constricted passages demanding fast maneuvers under pressure. A fast, reliable eddy turn may be needed to initiate maneuvers, scout rapids, or rest. Rapids may require "must" moves above dangerous hazards. Scouting may be necessary the first time down. Risk of injury to swimmers is moderate to high, and water conditions may make self-rescue difficult. Group assistance for rescue is often essential but requires practiced skills. A strong eskimo roll is highly recommended.
- Class V Extremely long, obstructed, or very violent rapids which expose a paddler to added risk. Drops may contain large, unavoidable waves and holes or steep, congested chutes with complex demanding routes. Rapids may continue for long distances between pools, demanding a high level of fitness. What eddies exist may be small, turbulent, or difficult to reach. At the high end of the scale, several of these factors may be combined. Scouting is recommended but may be difficult.

Swims are dangerous,	, and rescue is often	difficult even	for experts.	A very reliable	eskimo roll
proper equipment, ext	ensive experience, a	nd practiced re	scue skills a	re essential.	

9. What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)

Beginner	Advanced	
Novice	Expert	
Intermediate		
10. Relative to this flow, would you consider the minimum enjoyable recreation experience) to be higher, lower,		
Much lower	Higher	
Lower	Much higher	•
No change		
11. Relative to this flow, would you consider the optimus about the same as this flow? Circle one	m flow for this type of trip to b	oe higher, lower, or
Much lower	Higher	
Lower	Much higher	
No change		
13. Using site numbers or locations, please identify challed difficulty (using the International Whitewater Scale as		ons and rate their
Site numbers/Locations <sup>1</sup>		Rating
rock Dam		址
14. Estimate the number of hits, stops, boat drags, and po anything and did you have to stop or get out of the bo		e., did you hit
Number of hits (but did not stop)	0	
Number of hits with stops (did not have to get out of	boat)	
Number of hits with stops (had to get out of boat to co		Mary Andrea
Number of portages		_ up over dan
	40	up overdan Scout it out
		·

 $<sup>^{1}</sup>$  Site numbers/locations will be defined in consultation with the whitewater boating stakeholders during the field investigations for the IFIM study (Study No. 3.3.1)

15.	Using site numbers/locations on the map provided, the difficulty of the portages (for your type of water	identify rcraft at	rapids or se this flow)	ections you por	taged and rate
	Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	Far river right chamels	1	2	3	. 4 .
		1	2	3	4
	rock Dam	1	2	3	4
16.	Did you experience any difficulties (e.g., pinned, we (e.g., downed trees, woody growth in the river bed) description and location of these experiences or identity	during y	our run at t	or identify any his flow? Prov	specific risk vide a brief
	Difficulty		Lo	ocation	

17. Provide any additional comments about this flow below. If necessary, please use site numbers/locations to identify specific locations.

like the fact that it is very easy to portage around Dan for multiple runs.

			•
			•
•			
	•	•	
			•
	•		
•	•		