#### SINGLE FLOW EVALUATION FORM

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

low 1	cfs	Date/time	
low 2	cfs	Date/time	
low 3	· cfs	Date/time	
low 4 8000	cfs	Date/time 7 10	Altenwoon
low 5, if pplicable	cfs	Date/time	10000
low 6, if pplicable	cfs	Date/time	
Watercraft used (Circle ap	ppropriate one):		
Watercraft used (Circle ap	ppropriate one):	Stand up paddle	board
	opropriate one):	Stand up paddle C2	board
. Hard shell kayak	opropriate one):		board
Hard shell kayak Inflatable kayak	opropriate one):	C2	board
Hard shell kayak Inflatable kayak OC1	opropriate one):	C2 Raft	
. Hard shell kayak Inflatable kayak OC1 OC2	· ·	C2 Raft Cataraft Other (describe):	
. Hard shell kayak Inflatable kayak OC1 OC2 C1	· ·	C2 Raft Cataraft Other (describe):	
Hard shell kayak Inflatable kayak OC1 OC2 C1 Your whitewater boating s	· ·	C2 Raft Cataraft Other (describe):	

	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	(Circle appre	opriate response): .	•	
	Run Rock Dam	Portage 1	Rock Dam Paddle alt	ternate canal (avoid Rock 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	(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		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	$\bigcirc$	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	8000	2+	-2	-1	0	1	(2)		

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

Definitely no	Possibly	Probably	Definitely yes
		2100401	Dominion you

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	t Class:	2+

- 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.		consider the minimum acceptable flow (end to be higher, lower, or about the same as the			
	Much lower	Higher			
	Lower	Much higher	ŧ		
	No change				
11.	Relative to this flow, would you about the same as this flow? Cir	consider the optimum flow for this type of t	rip to be higher, lower, or		
	Much lower	Higher			
	Lower	Much higher			
	No change	•			
13.	Using site numbers or locations, difficulty (using the International	please identify challenging features, rapids of Whitewater Scale at this flow).	or sections and rate their		
	Site numbers/Locations <sup>1</sup> Syr F WAVE, ET  KOCK DAM	DRY (First Papial	Rating 2+ 3+		
14.		es, boat drags, and portages you had at this fles or get out of the boat to continue?).	ow (i.e., did you hit		
	Number of hits (but did not stop)		<u> </u>		
	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)	0_		
	Number of portages		0		
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)

3 3 am) or identify an at this flow? Pro	4 4 ny specific ris
3 (ram) or identify a	4 ny specific ris
am) or identify a	ny specific ris
am) or identify an at this flow? Pro	ny specific ris
ary, please use site	
ss DeAd	& spot
	Location  ary, please use site

More waves

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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 Dowd

Flow 1	cfs	Date/time	
Flow 2 Soci	)O cfs	Date/time	1:00-330+2/p
Flow 3	cfs	Date/time	1
Flow 4	cfs	Date/time	
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
Watercraft used (Circle	e appropriate one):		
	)	Stand up paddle	board
Hard shell kayak Inflatable kayak		Stand up paddle C2	board
Hard shell kayak			board
Hard shell kayak Inflatable kayak		C2	board
Hard shell kayak Inflatable kayak OC1		C2 Raft	
Hard shell kayak Inflatable kayak OC1 OC2 C1	ng skill level for the water	C2 Raft Cataraft Other (describe):	
Hard shell kayak Inflatable kayak OC1 OC2 C1		C2 Raft Cataraft Other (describe):	·
Hard shell kayak Inflatable kayak OC1 OC2 C1 Your whitewater boating		C2 Raft Cataraft Other (describe):	

3. I	Please evaluate the boati	ng access for	this segment of river (C	Circle appropriate one):
without wight	Put-in Access:	easy	moderate	difficult superst the locked 821
25515 AMOU	Take-out Access:	easy	moderate	difficult - Extremely Africult &
4. A	At "Rock Dam" did you	(Circle appro	priate response): .	rates / heavy beens

... The fitted pain and you (enote appropriate response).

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

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

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

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

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

Solve Run Rock Dam
Portage Rock Dam
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	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	11	(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)	Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20/14 8	8000	1-11+	-2	-1	0	1	2		

<ol><li>Are you likely to return for full</li></ol>	iture boating in the Turners Fal	ls 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 II well with Class III+@ Pack Hom

- 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	Kayakers	should have	a Solid, defe	endable voll	
	Relative to this flow, enjoyable recreation e				(enough flow for an as this flow? Circle one	
	Much lower		(	Higher		
	Lower			Much higher	ŧ	
	No change					
	Relative to this flow, about the same as this			m flow for this type	of trip to be higher, lower, o	r
	Much lower		(	Higher		
	Lower			Much higher		
	No change		•			
	Using site numbers or difficulty (using the In				ids or sections and rate their	
<u>.</u> -	Site numbers/Location	isi Jarrzon lii	re/Wandstore	scout)	Rating	
	Estimate the number o anything and did you h				is flow (i.e., did you hit	
]	Number of hits (but di	d not stop)			0	
]	Number of hits with st	ops (did not h	ave to get out of b	ooat)		
I	Number of hits with st	ops (had to ge	et out of boat to co	ontinue)		
	Number of portages	sed in or	der te ru	n Rock Da	m several time	<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)

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	Moderately	Extremely
Kayak		Difficult	Difficult	Difficult
Rock Dun portue	1	2	3	. 4 .
hiver right Thru the woods along shore		2	3	4
River left up over high rocks on	1	2		
a "goet trail"	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
No difficulties	

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

Please enhance by obtaining landowner permission or a "Right of way" in order to allow access from poplar Street to the River Right Beach just upstream of the take-Out we used in this study.
The current take-out is extremely ardnow and potentially dangerous for rafts and/or heavy waterport.

It is my understanding that this right of way access to the riverbank was formerly available to the public (and is still used by emergency personnel) but was closed due to littering mot/or vandolism. At one point in the past the Connecticut River watershed Connect published a brochuse obscribing access points for "Source to the Sea" river travellors. This site was in use at that

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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: Zack Hvi2 Lak

Flow 1		cfs	Date/time				
Flow 2		cfs	Date/time				
Flow 3		cfs	Date/time				
Flow 4	8000	cfs	Date/time 7/20	1:00 pm			
Flow 5, if applicable		cfs	Date/time				
Flow 6, if applicable		cfs	Date/time				
	used (Circle appropriate one	e):					
. Hard s	shell kayak		Stand up paddle bo	oard			
Inflata	ble kayak		C2				
OC1			Raft				
OC2			Cataraft				
C1			Other (describe):				
Your white	water boating skill level for	the water	craft used for this flow (C	Circle appropriate one):			
Begin	ner ·	·	Advanced				
Novice	e	- Control of the Cont	Expert				
Interm			1				
1,1,0,111							

3.	Please evaluate the boati	ing access for th	nis segment of river (Ci	ircle appropriate one):	
	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
4.	At "Rock Dam" did you	(Circle appropriate (Circl	<del>-</del>	Middle	Ghal
	Run Rock Dam	Portage Ro	ck Dam Paddle alt	ternate canal (avoid Ro	ck Dam,)
5	Please evaluate this flow	for your craft	and abill larval fames at	-641 641 1	

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	X	X
Availability of powerful hydraulics	-2	-1	0	<b>(</b>	2		
Availability of whitewater play areas	-2 ·	-1	Ô		2 .		1
Overall whitewater challenge	-2	-1	6	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	0	1	<b>2</b>	•	
Boating instruction	-2	-1	0		2		
Overall Rating	-2	-1	0		2		-

If unacceptable, was flow:

I	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
L			11+	-2	-1	0	(1)	2		

	Tor ratare boating in	the ruiners rans bypass	at this flow? (Circle one)
		Cor instruction	,
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:	// <del>/</del>

- 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.
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- 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 enjoyable recreation experience) to be his	r the minimum acceptable flow (enough flow for an gher, lower, or about the same as this flow? Circle one
Much lower	Higher
Lower Rock down No change	Much higher
11. Relative to this flow, would you consider about the same as this flow? Circle one	the optimum 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 id difficulty (using the International Whitew	dentify challenging features, rapids or sections and rate their vater Scale at this flow).
Site numbers/Locations <sup>1</sup>	Rating
Center Concl @ Rock	Dama 111 hydrali
Rock Dann	
14. Estimate the number of hits, stops, boat d anything and did you have to stop or get of	lrags, and portages you had at this flow (i.e., did you hit out of the boat to continue?).
Number of hits (but did not stop)	
Number of hits with stops (did not have to	o get out of boat)
Number of hits with stops (had to get out	o get out of boat)  of boat to continue)
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
	1	2	3	4
description and location of these experiences or iden Difficulty	tified ri		ocation	
			MARKET AND THE STREET	
numbers/locations to identify specific locations.			please use site	
numbers/locations to identify specific locations.			please use site	
numbers/locations to identify specific locations.  Rock Dann was more dynamic	e	3000		
Provide any additional comments about this flow bel numbers/locations to identify specific locations.  Rock Denn was more dynamic  Le Pest of The River  How 8000. More Synfelde	e	3000		
numbers/locations to identify specific locations.  Rock Dann was more dynamic	e	3000		

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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		cfs	Date/time	
Flow 4	. 8000	cfs	Date/time	7/20 PM
Flow 5, if applicable		cfs	Date/time	120
low 6, if		cfs	Date/time	
			<u> </u>	
and the second	used (Circle appropriate	one):	Stand up pade	lle board
Hard s	used (Circle appropriate hell kayak ble kayak	one):	Stand up padd	lle board
Hard s	hell kayak	one):		lle board
Hard s	hell kayak	one):	C2	lle board
Hard s Inflata OC1	hell kayak	one):	C2 Raft	
Hard s Inflata OC1 OC2 C1	hell kayak ble kayak		C2 Raft Cataraft Other (describ	
Hard s Inflata OC1 OC2 C1	hell kayak ble kayak water boating skill level		C2 Raft Cataraft Other (describ	pe):
Hard s Inflata OC1 OC2 C1 Your whitev	hell kayak ble kayak water boating skill level ner .		C2 Raft Cataraft Other (describer)	pe):

3.	Please evaluate the boating	ng 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 appro	priate response): .	
	Run Rock Dam	Portage F	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	Q	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	Q	2		
Safety	-2	-1	0		2		
Aesthetics	-2	-1	0	$\overline{(1)}$	2		
Length of run	-2	-1	0		2		
Number of portages	-2	-1	0	1	2	*	· · · · · · · · · · · · · · · · · · ·
Boating instruction	-2	-1	0	<u>(1)</u>	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
Phopm	8000	- seepons-	-2	-1	0	1	(2)		

/٠	Are you likely to letter	ii ioi iuture boating ii	tille Turners Falls bypass a	it this now? (Circle one)
	Definitely no	Possibly	Probably	Definitely yes
8.				uld you rate the whitewater whitewater classifications for
Th	is flow rates at Class:	- Control of the Cont	<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.
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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 padd	lle the bypass at this flow?	(Circle one)
Beginner		Advanced	
Novice		Expert	
Intermediat	e		
	ow, would you consider the minimion experience) to be higher, lower		
Much lower	•	Higher	
Lower		Much higher	t.
No change			
	ow, would you consider the optimes this flow? Circle one	num flow for this type of t	rip to be higher, lower, or
Much lower		Higher	
Lower		Much higher	
No change	·		
	rs or locations, please identify cha he International Whitewater Scale		or sections and rate their
Site numbers/Loc	ations <sup>1</sup>		Rating
St Rapid			11 #
Rock Da			111 in hardest
	ber of hits, stops, boat drags, and you have to stop or get out of the		•
Number of hits (b	ut did not stop)		0
Number of hits w	ith stops (did not have to get out o	of boat)	0
Number of hits w	ith stops (had to get out of boat to	continue)	<u> </u>
Number of portag	es		

<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 fo	r portage Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4
Did you experience any difficulties (e.g., (e.g., downed trees, woody growth in the description and location of these experien	river bed) during	your run at isks	this flow? Pro	vide a brief
Difficulty		L	ocation	
Provide any additional comments about the		necessary,	please use site	
Provide any additional comments about the numbers/locations to identify specific local	ations.		٠	
Provide any additional comments about the numbers/locations to identify specific local first april would	itions.  De o	Houst	ue of	a pl
Provide any additional comments about the numbers/locations to identify specific local first april would	itions.  De o	Houst	ue of	a pl
Provide any additional comments about the numbers/locations to identify specific local	te first	Hack	ive of con	possible

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#### SINGLE FLOW EVALUATION FORM

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

Date of run: 7/20/2014

Flow 1	cfs	Date/time
Flow 2	cfs	Date/time 7/20 ; 1:30pm
Flow 3	cfs	Date/time
Flow 4	8,000 c75 cfs	Date/time
Flow 5, if applicable	cfs	Date/time
Flow 6, if applicable	cfs	Date/time
Watararaft	used (Cirola engraprieta ena)	
	used (Circle appropriate one):	Stand up paddle board
. Hard s	nsed (Circle appropriate one):  hell kayak  ble kayak	Stand up paddle board C2
. Hard s	hell kayak plcyboat	
. Hard s	hell kayak plcyboat	C2
Hard s Inflata OC1	hell kayak plcyboat	C2 Raft
Inflata OC1 OC2 C1	hell kayak Pluyboat ble kayak	C2 Raft Cataraft
Inflata OC1 OC2 C1	hell kayak playbood. ble kayak water boating skill level for the wat	C2 Raft Cataraft Other (describe):
Hard s Inflata OC1 OC2 C1 Your whitev	hell kayak playbood. ble kayak water boating skill level for the wat	C2 Raft Cataraft Other (describe):ercraft used for this flow (Circle appropriate one)

3.	Please evaluate the	boating access for thi	is segment of rive	er (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			د				
whitewater play	-2	-1	0	(1)	2		
areas					,		
Overall							
whitewater	-2	-1	(0)	1	2		
challenge			- Annual Control of the Control of t				
Safety	-2	-1	0	1	(2)		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	$\bigcirc$	2		
Number of	-2	-1	0	1		•	
portages	-Z	-1	0	1	2)		
Boating	-2	-1	0		2		
instruction	-2	-1	U		2		_
Overall Rating	-2	-1	0	(1)	2		

someone mentioned there is rebar in rockdown > may want to check on this + remove it varing fish fun)

If unacceptable, was flow:

Release Date/Time		Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20 1/3	0 8000	正(四)	-2	-1	0	(1)	2		

7.	Are you likely to re	eturn for future	boating in the	Turners Falls	bypass at thi	s flow? (Circle one)
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Definitely no	Possibly	Probably	Definitely yes
-	The same of the sa	,	

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(证)	
This 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 difficure proper equipment, extensive experience, and practice of the proper equipment.		
	9. V	What skill level does a paddler need to safely paddle	the bypass at this flow? (Circle	e one)
		Beginner mound up  (Novice to	Advanced	
	•	(Novice) +0	Expert	
		Intermediate		
		elative to this flow, would you consider the minimunioyable recreation experience) to be higher, lower,		
		Much lower	Higher	
		Lower 5,000 was okay	Much higher	•
		No change		
		elative to this flow, would you consider the optimus bout the same as this flow? Circle one	m flow for this type of trip to be	e higher, lower, or
		Much lower	Higher	
		Lower	Much higher	
		No change		
•		sing site numbers or locations, please identify challe fficulty (using the International Whitewater Scale a		ons and rate their
		te numbers/Locations <sup>1</sup>		Rating
	2.	NICE DALIMAVE		
	3.₁	ninor play wave		
		stimate the number of hits, stops, boat drags, and po sything and did you have to stop or get out of the bo		, did you hit

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)

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, we (e.g., downed trees, woody growth in the river bed) description and location of these experiences or idea	during	your run at		
Difficulty		L	ocation	
none of relutance				· · · · · · · · · · · · · · · · · · ·
<u> </u>	****			
17. Provide any additional comments about this flow be numbers/locations to identify specific locations.				Nor Ex
17. Provide any additional comments about this flow be numbers/locations to identify specific locations.  - NICE Play Wave approach of island.  - Good fevel for beginners for the procha in channels.	P MS firs	right Virlagi H rap	chapile into no	ruici, ver B+
17. Provide any additional comments about this flow be numbers/locations to identify specific locations.  - NICE Play Wave approach of island.  - good fevel for beginners.  (at 1) proches in	p not firs conc add rip	right virlegi trap	chapie into no oid (i mobile to exis	vici, ver B+

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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	
Flow 4	. 800D	cfs	Date/time	7/20/14
Flow 5, if applicable	· · · · · · · · · · · · · · · · · · ·	cfs	Date/time	1/20/14
Flow 6, if applicable		cfs	Date/time	,
	(Circle appropriate	one):	Stand up node	illo hoord
. (Hard shell	kayak	one):	Stand up pado	ile board
Hard shell Inflatable	kayak	one):	C2	ile board
Hard shell Inflatable	kayak	one):		dle board
Hard shell Inflatable	kayak	one):	C2	dle board
Hard shell Inflatable	kayak	one):	C2 Raft Cataraft	dle board
Hard shell Inflatable OC1 OC2 C1	kayak		C2 Raft Cataraft Other (describ	
Hard shell Inflatable OC1 OC2 C1	kayak		C2 Raft Cataraft Other (describ	pe):
Hard shell Inflatable 1 OC1 OC2 C1 Your whitewate	kayak		C2 Raft Cataraft Other (describer craft used for this flow	pe):

3.	Please evaluate the boa	ting access for	r this segment of river (Ci	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,)

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	<u>(2)</u>		
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)		-

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	8000	Щ	-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 f whitewater classifications for				
Th	is flow rates at Class:							
	O1 T T							

- 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 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

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 Higher

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

Rating

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)

Place site numbers/location and reason for port	age Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
None	_ 1	2	3	. 4 .
	_ 1	2	3	4
	_ 1	2	3	4
Work				
· · · · · · · · · · · · · · · · · · ·				
7. Provide any additional comments about this flo				

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	•	c						
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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: 6/044 STAJAM

Flow 3 cfs Date/time  Flow 4 GOOO cfs Date/time  Tow 5, if cfs Date/time  Tow 6, if cfs Date/time  Cfs Date/time	Flow 1		cfs	Date/time	
Flow 4	Flow 2		cfs	Date/time	
Flow 5, if applicable  Flow 6, if applicable  Watercraft used (Circle appropriate one):  Hard shell kayak  Inflatable kayak  C2  OC1  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		cfs	Date/time	
Flow 5, if applicable  Flow 6, if applicable  Watercraft used (Circle appropriate one):  Hard shell kayak  Inflatable kayak  OC1  OC2  Cataraft  C1  Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced	Flow 4	6000	cfs	Date/time	
Watercraft used (Circle appropriate one):  Hard shell kayak Inflatable kayak C2 OC1 Raft OC2 Cataraft C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one) Beginner  Advanced	•		cfs		and the second s
Hard shell kayak  C2  OC1  Raft  OC2  Cataraft  C1  Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced			cfs	Date/time	
Inflatable kayak  C2  OC1  Raft  OC2  Cataraft  C1  Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced		İ			
OC1 Raft OC2 Cataraft C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner Advanced			ne):		
OC2 Cataraft C1 Other (describe):  Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced			ne):	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	ne):		
Your whitewater boating skill level for the watercraft used for this flow (Circle appropriate one)  Beginner  Advanced	. Hard s	shell kayak	ne):	C2	
Beginner . Advanced	Hard s Inflata	shell kayak	ne):	C2 Raft	
	. Hard s Inflata OC1 OC2	shell kayak	ne):	C2 Raft Cataraft	
Novice Expert	. Hard s Inflata OC1 OC2 C1	shell kayak ble kayak		C2 Raft Cataraft Other (describe):	
	. Hard s Inflata OC1 OC2 C1 Your white	shell kayak ble kayak water boating skill level fo		C2 Raft Cataraft Other (describe): craft used for this flow (Circle approximately contact to the contact t	

3.	Please evaluate the boat	ing access for	this segment of rive	er (Circle appropriate one):
	Put-in Access:	easy	moderate	difficult
	Take-out Access:	easy	moderate	difficult
4.	At "Rock Dam" did you	(Circle appro	opriate response): .	
	Run Rock Dam	Portage I	Rock Dam Pado	lle 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	-2	-1	0	1	(3)		
technical boating	_	•		*	9		
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	<u>(0)</u>	1	2		
Boating instruction	-2	-1	0	1	2		
Overall Rating	-2	-1	0	/1 )	2		

If unacceptable, was flow:

Date	lease Time		Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
LIF	$^{2}$ M	8000	11十二	-2	-1	0	(1)	2		

	Definitely no	Possibly	Probably	Definitely yes
8.			•	yould 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)

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 difficure proper equipment, extensive experience, and practice of the state of th	alt even for experts. A very recticed rescue skills are essentia	liable eskimo roll, l.
. 9. W	hat skill level does a paddler need to safely paddle	the bypass at this flow? (Circle	e one)
	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
	elative to this flow, would you consider the minimujoyable recreation experience) to be higher, lower,		
	Much lower	Higher	
	Lower	Much higher	•
	No change		
	lative to this flow, would you consider the optimum out the same as this flow? Circle one	n flow for this type of trip to be	e higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	No change		
	ing site numbers or locations, please identify challe ficulty (using the International Whitewater Scale a		ons and rate their
Sit	e numbers/Locations <sup>1</sup>		Rating

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)

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
None	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4
16. Did you experience any difficulties (e.g., pinned, w (e.g., downed trees, woody growth in the river bed) description and location of these experiences or ide	during	your run at t		
Difficulty		L	ocation	
				The Building of the State of th
,				

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: JAPUSS

low 1	cfs	Date/time	
Flow 2	cfs	Date/time	7
Flow 3	WW. cfs	Date/time	
Flow 4	8000 cfs	Date/time 7/20/14 /PM	4
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
	I		<u> </u>
	used (Circle appropriate one):	Stand up paddle bo	ard
. Hard-s		Stand up paddle bo	ard
. Hard-s	hell kayak		ard
Hard-s	hell kayak	C2	ard
. Hard-s Inflata OC1	hell kayak	C2 Raft	
. Hard-s Inflata OC1 OC2 C1	hell kayak	C2 Raft Cataraft Other (describe):	
. Hard-s Inflata OC1 OC2 C1	hell kayak ble kayak vater boating skill level for the wate	C2 Raft Cataraft Other (describe):	

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		2		
Availability of powerful hydraulics	-2	-1	0		2		
Availability of whitewater play areas	-2 ·	-1	(0)	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	(2)		
Boating instruction	-2	-1	0		2		_
Overall Rating	-2	-1	0	C1/	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 1Pm	6000	IL (TEL)	-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:	亚(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 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 minimu enjoyable recreation experience) 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 consider the optimur 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 at	enging features, rapids or sections and rate the this flow).	ir
	Site numbers/Locations 1  PACE A FILE AS A DE	Rating	
	POCK DAM	TH	
14.	Estimate the number of hits, stops, boat drags, and posanything and did you have to stop or get out of the boat	rtages 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 b		
	Number of hits with stops (had to get out of boat to co		
	Number of portages	<del></del>	
		•	

<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
$\sim$	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4
numbers/locations to identify specific locations.		• • •		
numbers/locations to identify specific locations.		• • •		EMAINED
7. Provide any additional comments about this flow bell numbers/locations to identify specific locations.  LEFT LINE @ ROCK  ME VAME @ ALC  get la Sier w/ more		• • •		EMAINED 170

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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	,000 cfs	Date/time	Ademoor
Flow 3	· cfs	Date/time	The feet of the second
Flow 4	cfs	Date/time	
Flow 5, if applicable	cfs	Date/time	
Flow 6, if	cfs	Date/time	
	le appropriate one):		
Watercraft used (Circ	ANGORDON,	Stand up pado	lle board
Watercraft used (Circ Hard shell kayak Inflatable kayak	ANGORDON,	C2	lle board
Watercraft used (Circ	ANGORDON,		lle board
Watercraft used (Circ  Hard shell kayak Inflatable kayak OC1	ANGORDON,	C2 Raft	
. Hard shell kayak Inflatable kayak OC1 OC2 C1	ANGORDON,	C2 Raft Cataraft Other (describ	pe):
Watercraft used (Circ  Hard shell kayak Inflatable kayak OC1 OC2 C1		C2 Raft Cataraft Other (describ	pe):

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).

	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	$(\widehat{2})$		
Aesthetics	-2	-1	0	1	(2)		
Length of run	-2	-1	0	1	(2)		
Number of portages	-2	-1	<u></u>	1	Œ	•	<u> </u>
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
			-2	-1	0	1	(2)		

7. Are you likely to return for future boating in the Turners Falls bypass at this flow? (Circl	7.	Are you likely	to return for future	e 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: 37/3

- 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	
	u consider the minimum acceptable flow (enough flow for an e) 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 yo about the same as this flow? C	u consider the optimum flow for this type of trip to be higher, lower, or ircle one
Much lower	Higher
Lower	Much higher
No change	•
	s, please identify challenging features, rapids or sections and rate their al Whitewater Scale at this flow).
Site numbers/Locations <sup>1</sup>	Rating
Rock DAM -	
Nober FEDGE	<u>III/I</u> Ÿ
	ops, boat drags, and portages you had at this flow (i.e., did you hit op or get out of the boat to continue?).
Number of hits (but did not stop	o)
Number of hits with stops (did a	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)

Place site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult
No Portiges	1	2	3	. 4 .
	1	2	3	4
	1	2	3	4
description and location of these experiences or iden				
		L	ocation	
Difficulty Nove			ocation	
,			ocation	

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e			د	,	
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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	•	cfs	Date/time	
Flow 4	. 8000	cfs	Date/time 7/20/19	. 100
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable		cfs	Date/time	
Watercraft used	(Circle appropriate or	ne):	Stand up paddle hoor	rd.
. Watercraft used	kayak	ne):	Stand up paddle boar	rd
. Watercraft used . Hard shell Inflatable	kayak	ne):	C2	rd
. Watercraft used . Hard shell Inflatable OC1	kayak	ne):	C2 Raft	rd
. Watercraft used . Hard shell Inflatable	kayak	ne):	C2 Raft Cataraft	rd
. Watercraft used . Hard shell Inflatable OC1 OC2 C1	kayak kayak		C2 Raft	
. Watercraft used . Hard shell Inflatable OC1 OC2 C1 Your whitewate	kayak kayak		C2 Raft Cataraft Other (describe): rcraft used for this flow (Circ	
. Watercraft used . Hard shell Inflatable OC1 OC2 C1	kayak kayak		C2 Raft Cataraft Other (describe):	

3.	Please evaluate the boatin	g access fo	r 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 appr	opriate response): .		
	Run Rock Dam	Portage :	Rock Dam Paddle a	lternate 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		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	6	1	2		
Overall Rating	-2	-1	0	(1)	2		

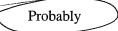
If unacceptable, was flow:

	Release ate/Time	Flow (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
1:	(d ()	8000	#-#	-2	-1	0	(ì)	2		

7.	Are you lil	kely to return	for future be	oating in the	Turners Falls	bypass at this	flow? (Circle one)
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	T OLIMAN I WILL	of page at this	ALON COLLOID OLIO

-	~			
1)e	tir	nite	2 I 77	no
ハ	/1 11	111	_1 V	$\mathbf{n}$

Possibly



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 at	

9.	What skill level does a paddler need to safely padd	le the bypass at this flow? (Circl	le one)
	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10.	Relative to this flow, would you consider the mining enjoyable recreation experience) to be higher, lower	num acceptable flow (enough flor, 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 optimabout the same as this flow? Circle one	um flow for this type of trip to b	be higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	No change		
13.	Using site numbers or locations, please identify cha difficulty (using the International Whitewater Scale	llenging features, rapids or secti at this flow).	ons and rate their
	Site numbers/Locations <sup>1</sup>		Rating
	Begining Ledges		111
	Begining Ledges FOCK Dan		T
14.	Estimate the number of hits, stops, boat drags, and panything and did you have to stop or get out of the b	oortages 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 o	f boat)	<del>-</del> /
	Number of hits with stops (had to get out of boat to	continue)	<i>_</i>
	Number of portages	<u>- 9</u>	<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
6. Did you experience any difficulties (e.g., pinned, wr (e.g., downed trees, woody growth in the river bed)	during y	your run at		
• •	during y	ooat, swam) your run at t isks	or identify any	specific risk
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	during y	ooat, swam) your run at t isks	or identify any this flow? Pro	specific risk
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	during y	ooat, swam) your run at t isks	or identify any this flow? Pro	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:	sunday July	20,7	1014			
Name: Charle	25 Murray					
	,		t			
Indicate which	flow release this survey c	orresponds	to (check appropriate box)	):		
Flow 1		cfs	Date/time			
Flow 2		cfs	Date/time			
Flow 3	,	cfs	Date/time			
Flow 4	. 4000	cfs	Date/time	July 20		
Flow 5, if		cfs	Date/time			
applicable						
Flow 6, if		cfs	Date/time			
applicable						
1. Watercraft ι	used (Circle appropriate o	ne):				
. Hard s	hell kayak		Stand up paddle bo	ard		
Inflata	ble kayak		C2			
(oc)			Raft			
OC2		Cataraft				
C1		Other (describe):				
2. Your whitev	vater boating skill level fo	or the water	craft used for this flow (C	ircle appropriate one):		
Beginn	ier .		Advanced			
Novice			Expert			
Interme	ediate		-			

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

Put-in Access: easy moderate w winch 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		2		
Availability of whitewater play areas	-2	-1	Ô	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		2		
Overall Rating	-2	-1	0	$\widehat{(1)}$	2		-

0

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
		II+1	-2	-1	0	1	2		

rockdan TX

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

Definitely no Poss

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: It II rock 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. 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	
	sider the minimum acceptable flow (enough flow for an e 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 cons about the same as this flow? Circle o	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, pleas difficulty (using the International Wh	se identify challenging features, rapids or sections and rate their itewater Scale at this flow).
Site numbers/Locations <sup>1</sup>	Rating
/ocl dam	
14. Estimate the number of hits, stops, bo anything and did you have to stop or g	out drags, and portages you had at this flow (i.e., did you hit get out of the boat to continue?).
Number of hits (but did not stop)	<u>O</u>
Number of hits with stops (did not have	ve to get out of boat)
Number of hits with stops (had to get	out of boat to continue)
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
NO partuses	1	2	3	. 4
	1	2	3	4
	1	2	3	4
Snam twice at rock das	M	L	ocation	
swam twice at rock da	M			
	low. If	– – necessarv. 1	olease use site	
Provide any additional comments about this flow be		,,,		<i>f</i> .
Provide any additional comments about this flow be numbers/locations to identify specific locations.				110
numbers/locations to identify specific locations.  The higher flow (8)	000	cfs)	made	
numbers/locations to identify specific locations.	16	40	pado	1/2 6

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

### Whitewater Controlled Flow Study

Date of run: 7/20/2014

Name: 1/m Michaud

Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	•	cfs	Date/time	
Flow 4	.8000	cfs	Date/time 7/30 PM	٤
Flow 5, if applicable		cfs	Date/time	
Ell. ( :e	CALCULATION OF THE CALCULATION O	cfs	Date/time	***************************************
applicable  Watercraft u	sed (Circle appropriate			
applicable  Watercraft u  Hard sh	nell kayak		Stand up paddle boa	urd
. Watercraft u Hard sh			Stand up paddle boa	urd
. Watercraft u Hard sh	nell kayak		Stand up paddle boa C2 Raft	urd
. Watercraft u Hard sh Inflatab OC1 OC2	nell kayak		Stand up paddle boa C2 Raft Cataraft	
. Watercraft u Hard sh Inflatab OC1 OC2 C1	nell kayak ole kayak	one):	Stand up paddle boa C2 Raft Cataraft Other (describe):	
. Watercraft u Hard sh Inflatab OC1 OC2 C1 Your whitew	aell kayak ole kayak rater boating skill level	one):	Stand up paddle boa C2 Raft Cataraft Other (describe): rcraft used for this flow (Cir	
Hard shard shard shard oct occ occ occ occ occ occ occ occ occ	aell kayak ole kayak rater boating skill level	one):	Stand up paddle boa C2 Raft Cataraft Other (describe):	

3.	Please evaluate the boat	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,)
Lan nout		, , , , , , , , , , , , , , , , , , , ,

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	Ó	2 .		
Overall whitewater challenge	-2	-1	0	0	2		
Safety	-2	-1	0_	1	(2)		
Aesthetics	-2	-1	(0)	<u>L</u>	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		

	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
L	7/30	8000	3	-2	-1	0	(1)	2		

7.	Are you likely to return	n for future boating i	n the Turners Falls bypass a	at this flow? (Circle one)
	Definitely no	Possibly	Probably	Definitely yes
8.				uld 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.		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, cole one
	Much lower	Higher
	Lower	Much higher
	No change	
13.	Using site numbers or locations, difficulty (using the International	please identify challenging features, rapids or sections and rate their l Whitewater Scale at this flow).
	Site numbers/Locations <sup>1</sup>	Rating
14.		es, boat drags, and portages you had 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	of have to get out of boat)  of get out of boat to continue)
	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
none	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) description and location of these experiences or iden	apped b	ooat, swam) your run at	or identify any	specific risl
(e.g., downed trees, woody growth in the river bed)	apped b	ooat, swam) your run at t sks	or identify any	specific risl
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or ider	apped b	ooat, swam) your run at t sks	or identify any this flow? Prov	specific risl
(e.g., downed trees, woody growth in the river bed) description and location of these experiences or ider	apped b	ooat, swam) your run at t sks	or identify any this flow? Prov	specific ris

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

	HITISSIN II, KAIT THIBIIT S.S. IIIKA IIS, KIIKAII II III TÄÄNÄ ET NAHIH HIIIISAMA AAN SAARIKAISAHTAA ÇAVA.	و در روز روز و در			
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## SINGLE FLOW EVALUATION FORM

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

Flow 1	8000	cfs	Date/time	pm
Flow 2		cfs	Date/time	
Flow 3	•	cfs	Date/time	
Flow 4		cfs	Date/time	
Flow 5, if applicable		cfs	Date/time	
· .		cfs	Date/time	
applicable  . Watercraft use	ed (Circle appropriate or			
. Watercraft use	ell kayak		Stand up paddle	e board
. Watercraft use Hard she	ell kayak		Stand up paddle	board
. Watercraft use . Hard she . Inflatable	ell kayak		Stand up paddle C2 Raft	board
. Watercraft use . Hard she Inflatable OC1 OC2	ell kayak		Stand up paddle C2 Raft Cataraft	
. Watercraft use . Hard she Inflatable OC1 OC2 C1	ell kayak e kayak	ne):	Stand up paddle C2 Raft Cataraft Other (describe)	);
. Watercraft use . Hard she Inflatable OC1 OC2 C1	ell kayak e kayak	ne):	Stand up paddle C2 Raft Cataraft Other (describe)	
Hard she Inflatable OC1  OC2  C1	ell kayak e kayak ter boating skill level fo	ne):	Stand up paddle C2 Raft Cataraft Other (describe)	);

3.	Please evaluate the bo	pating access for	this segment of river	· (Circle appropriate one):
	Put-in Access:	easv	moderate	difficult

Take-out Access: easy moderate

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:

difficult

	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	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
$\frac{1}{20}$ // $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	7	120/14	8000	3	-2	-1	0	1	(2)		

7.	Are you likely to return	for future boating in the	Turners Falls bypass at this t	flow? (Circle one)
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	<i></i>		
Definitely no	Possibly	Probably	Definitely yes
		•	<b>3 3</b>

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:	3
This flow 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.

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	. Relative to this flow, would y enjoyable recreation experier	ou consider the minimum acceptable flow (enough flow for a ce) to be higher, lower, or about the same as this flow? Circle	n e one
	Much lower	Higher	
	Lower	Much higher	ε
	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 highe Circle one	r, lower, or
	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 nal Whitewater Scale at this flow).	rate their
	Site numbers/Locations <sup>1</sup> Rod	Ratin 34	g
14.	Estimate the number of hits,'s anything and did you have to	cops, boat drags, and portages you had at this flow (i.e., did you not get out of the boat to continue?).	— ou hit
	Number of hits (but did not st	op) .	
	Number of hits with stops (die	**************************************	
	Number of hits with stops (ha	to get out of boat to continue)	
	Number of portages	<u>O</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)

15.	. Using site numbers/locations on the map provided, identify rapids or sections you portaged and ra 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	
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 identificulty	during y	our run at t sks	his flow? Provocation	vide a brief	
17.	Provide any additional comments about this flow be numbers/locations to identify specific locations.  How was the beauty of the form of th					

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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	
Flow 4	9000	cfs	Date/time	7/20 - 100
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable		cfs	Date/time	
	used (Circle appropriate o	ne):	Stand up pado	lle board
. Hard s		ne):	Stand up padd	lle board
. Hard s	shell kayak	ne):		lle board
. Hard s	shell kayak	ne):	C2	lle board
Hard s Inflata OC1	shell kayak	ne):	C2 Raft	
Hard s Inflata OC1 OC2 C1	shell kayak ible kayak		C2 Raft Cataraft Other (describ	
Hard s Inflata OC1 OC2 C1	shell kayak ble kayak water boating skill level fo		C2 Raft Cataraft Other (describ	pe):
Hard s Inflata OC1 OC2 C1 Your whites	shell kayak ble kayak water boating skill level fo		C2 Raft Cataraft Other (describeraft 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:	easy	moderate	difficult			

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

Run Rock Dam Port

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	۵.		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0		2		·
Aesthetics	-2	-1	0	TUŽ -	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/Tim	e (cfs)	Your Perceived Difficulty of the run (Class I-V+)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable	Too Low	Too high
7/20-1	m 8000		-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.				ould you rate the whitewater whitewater classifications for
Th	is 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.

9.	What skill level does a paddler need	d to safely paddle the bypass at this flow? (Circle one)
	Beginner	Advanced
•	Novice	Expert
	Intermediate	
10		nsider 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	nsider 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, ple difficulty (using the International W	ase identify challenging features, rapids or sections and rate their hitewater Scale at this flow).
- 14.	Site numbers/Locations <sup>1</sup> Phin - left change  Made Change Change  Estimate the number of hits, stops, be anything and did you have to stop of	Dom, 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 h	ave to get out of boat)
	Number of hits with stops (had to ge	et out of boat to continue)
	Number of portages	
FIRE	Rack Dam-mid-	d-glass wave-river right -II
01	y value dance con	English to design the

<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
$\frac{1}{\sqrt{n}}$	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	Locati	on	
Sham-caldn't roll at Smead	Island play wa	ve - easybig	- resure

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

-Better take at access - take at at Dale Dan? - Great play waves below rack boom - river right le Cabot le vight of Smead Island

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## SINGLE FLOW EVALUATION FORM

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

Date of run: July 2014 2014
Name: James Kelly-Rund

low 1		cfs	Date/time	
Flow 2		cfs	Date/time	·
Flow 3	· c	cfs	Date/time	
Flow 4	.9000	cfs	Date/time	7/20 1:00
Flow 5, if applicable		cfs	Date/time	
·				
applicable	l (Circle appropriate on	cfs ne):	Date/time	
Watercraft used	kayak		Stand up pade	dle board
Watercraft used Hard shell	kayak		Stand up pade C2	dle board
Watercraft used	kayak		Stand up pade	dle board
Watercraft used Hard shell Inflatable OC1	kayak		Stand up pado C2 Raft	
Watercraft used Hard shell Inflatable OC1 OC2	kayak kayak	ne):	Stand up pade C2 Raft Cataraft Other (describ	
Hard shell Inflatable OC1 OC2	kayak kayak	ne):	Stand up pade C2 Raft Cataraft Other (describ	be):

3.	Please evaluate the boat	ing access for	this segment of river (C	fircle 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	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		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	ı	2	•	
Boating instruction	-2	-1	(i)	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
		jl	-2	-1	0	1	(2)		

	(Definitely no.)	Possibly	Probably	Definitely yes
8.				yould you rate the whitewater

difficulty of the river at this flow? (if appropriate, provide a range of whitewater classifications for this flow)

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

This flow rates at Class: [ [ (III FOCK town)

- 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.

9.	What skill level does a padd	ler need to safely paddle the bypass at this flow? (Circle	e one)
	Beginner	Advanced	
•	Novice	Expert	
	Intermediate		
10	Relative to this flow, would enjoyable recreation experies	you consider the minimum acceptable flow (enough flounce) to be higher, lower, 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 about the same as this flow?	you consider the optimum flow for this type of trip to b Circle one	e higher, lower, or
	Much lower	Higher	
	Lower	Much higher	
	No change	*	
13.		ons, please identify challenging features, rapids or sectional Whitewater Scale at this flow).	ons and rate their
	Site numbers/Locations <sup>1</sup>		Rating
14.	Estimate the number of hits, anything and did you have to	stops, boat drags, and portages you had at this flow (i.e. stop or get out of the boat to continue?).	, did you hit
	Number of hits (but did not si	top)	
	Number of hits with stops (di	d not have to get out of boat)	
	Number of hits with stops (ha	ad to get out of boat to continue)	<del></del>
	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, wr (e.g., downed trees, woody growth in the river bed) description and location of these experiences or iden	during y	our run at t			
	Difficulty		Le	ocation		
				1860		
	ε					
	Provide any additional comments about this flow be numbers/locations to identify specific locations.		_	_		
	The 8000 CFS flow open	ed i	ip nei	n fea	tures	
	The 8000 CFS flow open at the beginning left a pock dam. Also news was rashed out For	Ma:	mal h	为省省	t the	
	pock dam. Alle new	ne w	edec of	t the	viller	
	was vasued on for	m	ses jul	7		

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

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

low 1		cfs	Date/time	
low 2	10 mg 10	cfs	Date/time	
low 3	•	cfs	Date/time	
low 4	.8000	cfs	Date/time 7/20	. After nou
low 5, if pplicable	111170000000000000000000000000000000000	cfs	Date/time	
low 6, if pplicable		cfs	Date/time	
ppiicable	W. C.			
Watercraft us	sed (Circle appropriate o	one):	Stand up paddla ha	ord
Watercraft us	ell kayak	one):	Stand up paddle bo	ard
Watercraft us		one):	Stand up paddle bo C2 Raft	ard
Watercraft us Hard sh	ell kayak	one):	C2	ard
Watercraft us Hard sh Inflatab	ell kayak	one):	C2 Raft	
Watercraft us Hard sh Inflatab OC1 OC2 C1	ell kayak de kayak		C2 Raft Cataraft	
Watercraft us Hard sh Inflatab OC1 OC2 C1	ell kayak le kayak ater boating skill level f		C2 Raft Cataraft Other (describe):	

3.	Please evaluate the boati	ng access for	this segment of river (Cir	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.)
Ran	Rock Dam on	Paddle alternate canal (avoid Rock Dam,) far right adjacent to island show
	<u> </u>	

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	(2)/		
Length of run	-2	-1	9	(1)	2		
Number of portages	-2	-1		1	2	•	
Boating instruction	-2	-1		1	2		_
Overall Rating	-2	-1	0	1	2		

1.5

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	8000	2+	-2	-1	0	1	(2)		

7.	Are you likely to return	for future boating in	n the Turners Falls bypass a	t 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)

	J 1
This flow rates at Class:	d +
This flow 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.

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	
	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 b	e 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 at		ons and rate their
	Site numbers/Locations   Rock Dam (Far right along the	Island)	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		., did you hit
	Number of hits (but did not stop)		
	Number of hits with stops (did not have to get out of b	poat)	
	Number of hits with stops (had to get out of boat to co	ontinue) <u> </u>	
	Number of portages Shore scouted	l Rock 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	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

I witnessed and threw a rope to an open boater who

messed up their boof at Rock Dam (far right along the island shore

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

An alternate take-out just upstream of the take-out we used would greatly.

· add to the ease of doing this run.

At this level, the river moved too quick and was
too pushy for novices to feel comfortable.
They might be able to hang on and peddle it,
but their level of comfort probably would not
be there.

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## SINGLE FLOW EVALUATION FORM

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

m: 7/20 Steve Bridges

Date of run: \_\_\_

low 1	cfs	Date/time	
Flow 2	cfs	Date/time	
Flow 3	· cfs	Date/time	
Flow 4	8000 cfs	Date/time 7/2 0	1 PM
Flow 5, if applicable	cfs	Date/time	
Flow 6, if applicable	cfs	Date/time	
	used (Circle appropriate one):	Standard and Allahar	
. naiu si	hell kayak	Stand up paddle boa	ıra
Tueflotol	ala leasale		
	ble kayak	C2	
OC1	ble kayak	Raft	
OC1 OC2	ble kayak		
OC1	ble kayak	Raft	
OC1 OC2 C1	ble kayak vater boating skill level for the water	Raft Cataraft Other (describe):	
OC1 OC2 C1	vater boating skill level for the water	Raft Cataraft Other (describe):	

	Put-in Access:	easy	moderate	difficult	
	Take-out Access:	easy	moderate	difficult	
A	At "Dook Dom" did wan	(Cinala annua			
4.	At "Rock Dam" did you	(Circle approx	oriate response): .		

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

Portage Rock Dam Paddle alternate canal (avoid 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:

	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	0	2		
Length of run	-2	-1	0		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
<u></u>			-2	-1	0	(1)	2		

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

-	•		-	
De	tir	nite	elv	no

Possibly



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.

9.	What skill level does a paddler need to safely paddle the bypass at this flow? (Circle one)						
	Beginner	Advanced					
•	Novice	Expert					
	Intermediate						
10		consider the minimum acceptable flow (enough to be higher, lower, or about the same as this					
	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 tri	ip to be higher, lower, or				
	Much lower	Higher					
	Lower	Much higher					
	No change						
13.		please identify challenging features, rapids on Whitewater Scale at this flow).	r sections and rate their				
	Site numbers/Locations <sup>1</sup> ledge Fn m  above Ro	iddle channel ek Dam	Rating				
14.	Estimate the number of hits, stop anything and did you have to sto	os, boat drags, and portages you had at this floop or get out of the boat to continue?).	w (i.e., did you hit				
	Number of hits (but did not stop)	) . 	0				
	Number of hits with stops (did n	ot have to get out of boat)	0				
	Number of hits with stops (had to	o get out of boat to continue)	0				
	Number of portages	-	0				
			£				

 $<sup>^{1}</sup>$  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
difficulty escapina	·
surf at ledge m	
middle channel abo	)ve
Rock Down	

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

							*
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	•	•					
					c		

# 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:

Flow 2 Flow 3				Į.			
Flow 2		cfs	Date/time				
FIUW 3		cfs	Date/time				
Flow 4	. 8,000	cfs	Date/time	1:00 PM			
Flow 5, if applicable		cfs	Date/time				
Flow 6, if applicable		cfs	Date/time				
	used (Circle appropriate one	e):	Stand up paddle l	board			
	ible kayak		C2				
OC1	•	Raft					
OC2		Cataraft					
C1			Other (describe):				
. Your white	water boating skill level for	the water	rcraft used for this flow (	Circle appropriate one):			
Begini	ner .		Advanced				
Novice	e		Expert				
Interm	ediate						

э.	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.	4. At "Rock Dam" did you (Circle appropriate response):								
	Run Rock Dam	Portage	Rock Dam Paddle alt	ternate 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 Acceptab		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 <	) <sup>1</sup>	2		
Availability of whitewater play areas	-2 ·	-1	i Z	<b>7</b> 1	2 .		
Overall whitewater challenge	-2	-1	0		2		
Safety	-2	-1	0	/1/	2		·
Aesthetics	-2	-1	0		2		···
Length of run	-2	-1	0		2		
Number of portages	-2	-1	(D)	1	2		
Boating instruction	-2	-1	[9]	1	2		
Overall Rating	-2	-1	0	/i )	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
7/20/2014	8.000	Tt./	-2	-1	0	(1)	2		
1:00 PM		/Resign	w III					J	

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.

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 minir enjoyable recreation experience) to be higher, lower	num acceptable flow (enough f er, or about the same as this flow	low for an  w? Circle one
	Much lower	Higher	
	Lower	Much higher	t.
	No change		
11.	Relative to this flow, would you consider the optimabout the same as this flow? Circle one	um 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 chadifficulty (using the International Whitewater Scale		tions and rate their
	Site numbers/Locations  Rock Daw - Scouting  And then bring a lake to	a the Rayld	Rating
14.	Estimate the number of hits, stops, boat drags, and panything and did you have to stop or get out of the l		e., did you hit
	Number of hits (but did not stop)		<u>/_</u>
	Number of hits with stops (did not have to get out o	f boat)/	
	Number of hits with stops (had to get out of boat to	continue)	-
	Number of portages	Andrew Street	<del></del>
			t

<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
Middle Channel Algore	Rock Dann
Middle channel floore (Sticky surf) Fun!	
Felting Raff UP Pock Do	

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

					¢.
					No.
·	,				
			•		
				·	
	•				
			•		

#### Figure 3.6.3-1b: Single Flow Evaluation Form

# 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:

Flow 1		cfs	Date/time
110" 1		CIS	Datestine
Flow 2		cfs	Date/time
Flow 3	·	cfs	Date/time
Flow 4	.2000	cfs	Date/time PCM
Flow 5, if applicable		cfs	Date/time
Flow 6, if applicable		cfs	Date/time
1. Watercra	aft used (Circle appropriate one):		
. Hai	rd shell kayak		Stand up paddle board
Infl	latable kayak		C2
OC	1		Raft
OC	2		Cataraft
C1			Other (describe):
2. Your wh	itewater boating skill level for the	e watero	craft used for this flow (Circle appropriate one):
Beg	ginner		. Advanced
Nov	vice		Expert
Inte	ermediate		

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): .							

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 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	221		
Length of run	-2	-1	0	1	(/2/		
Number of portages	-2	-1	0	1	(2)		
Boating instruction	-2	-1	0	1	2	4	_
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
1/m	XII	/	-2	-1	0	1 (	2)		

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

-	~		-	
1 )_	tin	rita	al x z	no
$\mathcal{L}$		ш	~I V	110

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:	111	

- 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 cenjoyable recreation experience) to	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				
	Lower	Much higher				
	No change					
11.	Relative to this flow, would you cabout the same as this flow? Circ	onsider the optimum flow for this type of trip to be higher, lower, or e one				
	Much lower	Higher				
	Lower	Much higher				
	No change					
13.	Using site numbers or locations, p difficulty (using the International	ease identify challenging features, rapids or sections and rate their Whitewater Scale at this flow).				
	Site numbers/Locations <sup>1</sup>	Rating				
14.		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 not	have to get out of boat)				
	Number of hits with stops (had to					
	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 portage	Easy	Slightly Difficult	Moderately Difficult	Extre Diff
	Rock 2m	1	2	3	. 4
		1	2	3	4
		1	2	3	4
-					
-					
17. J	Provide any additional comments about this flow be numbers/locations to identify specific locations.	low. If	necessary,	please use site	
	grad Level	•			

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### Figure 3.6.3-1b: Single Flow Evaluation Form

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

Date of run:	7.20.14			
Name:	acey hall	ma		
	1		1	
Indicate which f	low release this survey corre	sponds	to (check appropriate box):	:
Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3		cfs	Date/time	
Flow 4	8000	cfs	Date/time 100	<b>?</b>
Flow 5, if applicable		cfs	Date/time /	
Flow 6, if applicable		cfs	Date/time	
аррпсанс				
1 Watereneft w	and (Cirola appropriate ana).			
	sed (Circle appropriate one):			
. Hard sl	nell kayak		Stand up paddle boa	ard
Inflatal	ole kayak		C2	
OC1			Raft	
OC2			Cataraft	
C1			Other (describe):	
2. Your whitew	vater boating skill level for th	e water	craft used for this flow (Ci	rcle appropriate one):
Beginn	er .		Advanced	
Novice			Expert	
Interme	ediate			

3.	Please evaluate the bo	ating access for	this segment of river (Cir	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. 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	$\left( \begin{array}{c} 2 \end{array} \right)$		,
hydraulics							
Availability of	4		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		1		•	***************************************
portages	-2	-1	0	1	(2)		
Boating	-2	1	_	1			
instruction	-2	-1	0	1	$\begin{pmatrix} 2 \end{pmatrix}$		
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	工士	-2	-1	0	1	(2)		
100									

7.	Are you likely t	to return for future	boating in the	Turners Falls	bypass at this	flow? (Circle o	ne
----	------------------	----------------------	----------------	---------------	----------------	-----------------	----

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, wou enjoyable recreation expe	rience) to be higher, lower, 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, wou about the same as this flow	ld you consider the optimum flow for this type of tripw? Circle one	p to be higher, lower, or				
	Much lower	Higher					
	Lower	Much higher					
/	No change	•					
13.	Using site numbers or loca difficulty (using the Intern	ations, please identify challenging features, rapids or actional Whitewater Scale at this flow).	sections and rate their				
	Site numbers/Locations <sup>1</sup>	Rock Dam	<u>Rating</u> (   -   ) (				
		ts, stops, boat drags, and portages you had at this flow to stop or get out of the boat to continue?).	w (i.e., did you hit				
	Number of hits (but did no	ot stop)	0_				
	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)	6				
	Number of portages	_					

 $<sup>^{1}</sup>$  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)

	5. Using site numbers/locations on the map provided, identify rapids or sections you portaged and the difficulty of the portages (for your type of watercraft at this flow)					
P	lace site numbers/location and reason for portage	Easy	Slightly Difficult	Moderately Difficult	Extremely Difficult	
*****	<u> </u>	1	2	3	. 4 .	
_		1	2	3	4	
		1	2	3	4	
(e	id you experience any difficulties (e.g., pinned, wr e.g., downed trees, woody growth in the river bed) escription and location of these experiences or iden	during y	your run at t	or identify any his flow? Pro	y specific risk vide a brief	
D	ifficulty		L	ocation		

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

				*
·	•			
•		•	·	
			٠	

### Figure 3.6.3-1b: Single Flow Evaluation Form

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

Date of run:	7/20/14 st Brean	_		
Name: Robe	it Break			
Indicate which	flow release this survey	corresponds	to (check appropriate box)	:
Flow 1		cfs	Date/time	
Flow 2		cfs	Date/time	
Flow 3	•	cfs	Date/time	
Flow 4	.S000	cfs	Date/time 7/70/14	150 PM
Flow 5, if applicable		cfs	Date/time	
Flow 6, if applicable	•		Date/time	
1. Watercraft ı	used (Circle appropriate	one):		
	hell kayak	one).	Stand up paddle boa	ard
	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				
	1.77	(C) 1						

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 fone number for each chara		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	<b>①</b>	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	( <u>2</u> )		
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
7/20/14 8	3000	並	-2	-1	0	1	2	-	

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

Definitely no

Possibly

III drop

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 menjoyable recreation experience) to be higher, lo	inimum acceptable flow (en ower, or about the same as the	ough flow for an nis flow? Circle one		
	Much lower	Higher			
	Lower	Much higher	•		
	No change				
11.	Relative to this flow, would you consider the op about the same as this flow? Circle one	otimum flow for this type of	trip to be higher, lower, or		
	Much lower	Higher			
	Lower	Much higher			
	(No change) Possibly Higher				
13.	or sections and rate their				
	Site numbers/Locations <sup>1</sup>		Rating		
	First rapids river right chan	inel			
	rock Dan				
14. Estimate the number of hits, stops, boat drags, and portages you had at this flow (i.e., did you hanything 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 or	0			
	Number of hits with stops (had to get out of boat				
	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)

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		
	First rapids	1	2	3	. 4 .		
	First capids:	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 ang this flow? Pro	y specific risk vide a brief		
	Difficulty		L	ocation			
			<u> </u>	Phil			
		· <del> </del>					
	Provide any additional comments about this flow bell numbers/locations to identify specific locations.		-	-			
16. Did you experien (e.g., downed tredescription and lot Difficulty  17. Provide any addit numbers/location  OVER G  And Live  Personal  dan. O	Over all I thought the And liked it very much	173	نادي ڏ	a vey "	good lev	el	
	And liked it very much						
•	I personelly liked tock d	,cM	~ 1		But only		
	dan. over all \$ 8000	cfs		5 made	the Who	NC	
	river good						

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