HIGH PERFORMANCE RULE V.4h1 2014

Boat Name:	ICE FIRE
Class:	TP52
Certificate:	Annapolis Fall Regatta
Sail Number:	USA 60292
Issue Date:	10/30/14 12:42

Owner: Steve & Heidi Benjamin

Owner Signature:

Certificate Fee: $416.06 ($26.25/m LOA)

Change Fee: $0.00

Hull	
LOA	15.850
FO	0.05
Y	0.09
	INTRODUCTO
Age Date	2007
BM	4.420
FF	1.51
FBI	1.335
FA	1.16
DRA	3.180
CW	1275
Dempty	7199
Pre HPR	0.000
KWT	0.0
KVCG	0.000
HCGic	0.781
HWTic	7199.0
VCG-comp	0.000
VCG-incl	-1.34
RUD2	N
PSP	Y
AC	0
HDHM	0
SPHM	0
EOSC	0

Spars	
J	6.18
P	20.42
E	6.99
IG	19.58413
ISP	22.58413
BAL	0
BD	0
BAS	2.1
FSP	0.06
CPD	0.1[illegible]
CPW	1
SWA	[illegible]
MW[illegible]	[illegible]
CG	
B[illegible]T	0.000
[illegible]RO	3.235
Runners	0
Spreaders	3
TPS	9.010
TPSmax	8.967
TPS Excess	0.043

Mainsail	
HB	1.75
MGT	2.44
MGU	3.28
MGM	4.69
MGL	5.9
Meas Main	92.92
Rated Main	95.14
Jib	
Jib luff	[illegible].92
LPG	6.[illegible]0
LP	6.[illegible]
[illegible]UH	0.1[illegible]
JGT	[illegible].000
[illegible]GU	1.640
[illegible]M	3.090
JGL	4.600
[illegible]b Area	63.453
JSA + MSA	**158.60**

0.39	61.85	= JSA min
0.44	69.78	= JSA max

Ayso	
SLU	25.46
SLE	21.22
AMG	13.15
ASF	14.92
AYSO	**266.01**

15.10958

MGMH	10.619	< ORC-RS 109.1
MGLH	5.323	"
MGUH	15.967	"
MGTH	18.783	"

Measured / Calculated	Meas Val	Meas	Base Val	Reference Only: Meas - Base	Reference Only: PD- Percent Difference
Beam	4.420	maxb	4.486	-0.066	-0.015
Meas Freeboard - FR	1.335	Rb	1.323	0.012	0.009
Meas Draft	3.180	DRAb	3.556	-0.376	-0.106
Meas/Calc - VCG	-1.34	VCGb	-1.153	-0.187	0.163
Meas Crew Wt - CW	1275	CWb	1150	125.0	0.109
Displ Demp	7199	Demptyb	7538	-339	-0.045
USA	158.596	USAb	168.9	-10.34	-0.061
Spinnaker	266.012	SPINb	274.7	-8.69	-0.032
Rig Height	22.584	RHb	23.30	-0.719	-0.031

Final Calculation		
Length	L	15.8000
Age Plus Pre HPR	AGEc	0.9860
Beam	BMc	0.9993
Freeboard	FRc	0.9996
Draft	DRAc	0.9953
VCG	VCGc	1.0127
Crew Factor	CFc	1.0001
Displacement	Demptyc	1.0062
Upwind Sail Area	USAc	0.9885
Spinnaker Area	SPAc	0.9961
Rig Height	RHc	0.9946
Robust Mast	RMASTc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	1.0000
Preliminary Rated Length == >		**15.1923**
Rated Length Lower Limit == >		**13.9040**
Final Rated Length ======= >		**15.1923**

TCF	**1.0975**
Seconds per mile	503.0

RULE WARNINGS / FAILURES

IG	
LP	
TPS	TPS EXCEEDS MAX, 4 x EXCESS ADDED TO AMG & ASF
MIN RATED LENGTH	
VCG SOURCE	OFFSETS FILE / INCLINATION
	NO BOOM WGT: SMALL RATED LENGTH PENALTY

Final Rating is in Units of Length
TCF is calculated from the Final Rating by the formula:
TCF = (L/12.2)^.424
A boat with Rated Length 12.2m will have a TCF of 1.000
Seconds per mile = 552 / TCF

1+.002*age
.002*age

Website: www.hprsailing.org
www.offshoreracingrule.org
Contacts: Bill Lee (Rule, Primary Contact) wizard@fastisfun.com
Jim Teeters (Technical) jim@tytech.org
Dobbs Davis (Communications) dobbs@hprsailing.org

Bill's color code	
Inputs	1-7
Intermediate Calculations	2-1
Base or Max	1-10
Correctors	1-3
Final Rating	1-9

Corrector Guide
1.000 - Measured Value Equals Base Value
> 1.0000 - Measured Value is slower than Base Value
<1.0000 - Measured Value is faster than Base Value

L value = Yellow indicates AGE applies

INTRODUCTORY