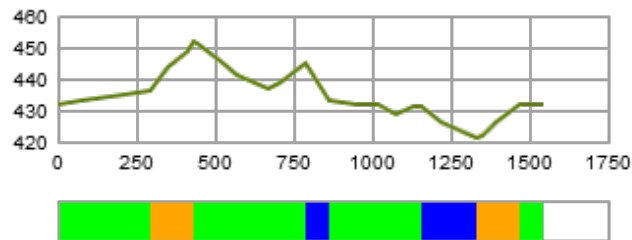




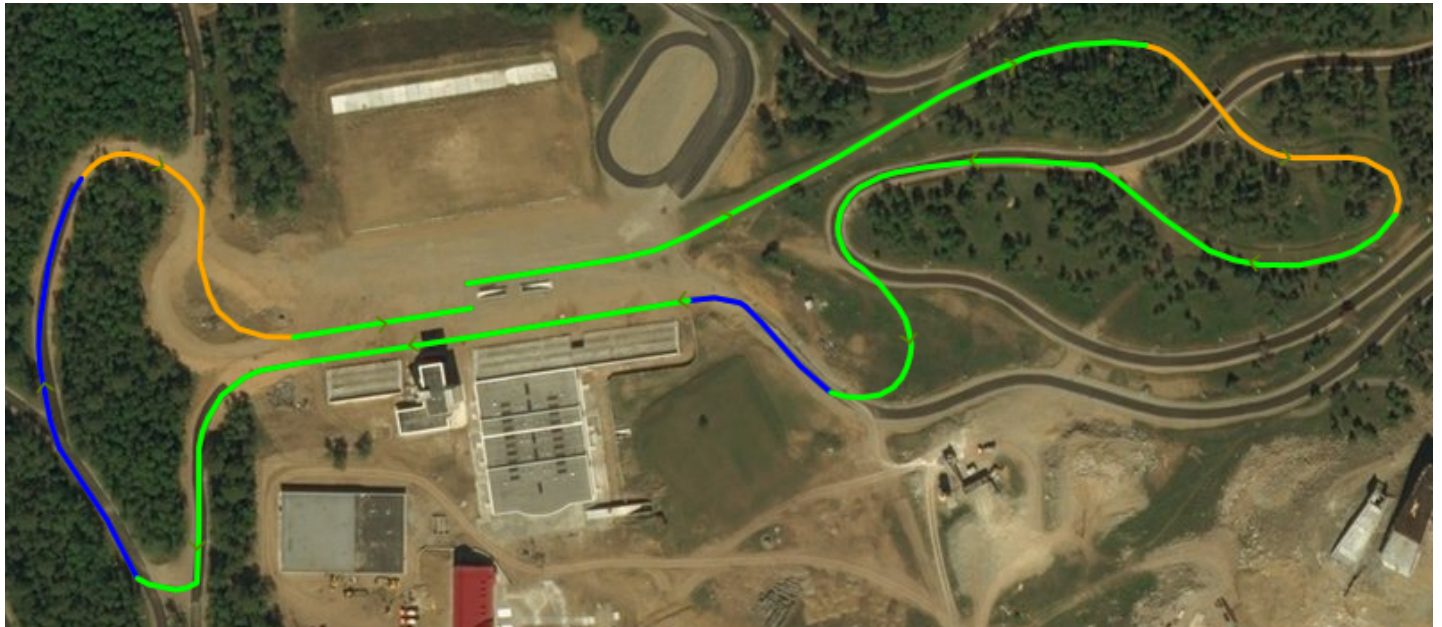
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number: 17/53.03/1.5
(2) Name of the competition site: National ski center
(3) Name of city/region: Schuchinsk
(4) Organizer: Cross-country Skiing Federation of Kazakhstan
(5) National ski association: KAZ
(6) Contact person in the organizing committee: Oleg Kolomeyets
(7) Homologation inspector: Andrey Arsenyev
(8) Name of course: 1,5 Sprint F/C
(9) Competition level for course: COC

Course length:	1,541m	Height difference (HD):	31m	Lowest point:	421m
Course category:	D	Maximum climb (MC):	16m	Highest point:	452m
		Total climb (TC):	41m		



A-climb B-climb C-climb descent undulated terrain



FIS Office


Mignerey, Pierre
FIS International Ski Federation
Blochstrasse 2 / Postfach
CH - 3653 Oberhofen

FIS Stamp



FIS Homologation
Responsible


Aalberg, John

Date of Issue
01.11.2017
Valid until
30.06.2022

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	2	27	65.9
- descents	2	0	0.0
- undulated terrain	4	14	34.1

(11) Stadium area:

Fixed stadium area	yes
Fixed building	yes
Temporary stadium	no
Temporary building	no
Good infrastructure (access, parking, media, etc.)	yes
Skitesting area along course/near stadium	yes
Warm up track near the stadium	yes

Indoor working room:

Timekeeping	yes
Announcer	yes
Jury	yes
Race office	yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats		yes			
Course suitable for following competition formats with					
a) Classical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these mearures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding.

(16) Safety considerations:

All downhill are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb		total		0			0.0% part of TC
B-climb	1	295	16	16	7.8 - 16.9	11.9	
	2	1,331	11	11	5.7 - 9.2	8.0	
	total			27			65.9% part of TC
C-climb		total		0			0.0% part of TC
undulated terrain		total		14			34.1% part of TC
		total climb		41			