



**CANADIAN FORCES
JOINT SIGNAL REGIMENT**
**REGIMENT DES TRANSMISSIONS
INTERARMEES DES FORCES CANADIENNES**

OFFICE OF THE COMMANDING OFFICER
CABINET DU COMMANDANT

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3350 (B Tp Comd)

11 ~~Aug~~ ^{Sep} 2020

Distribution List

EXERCISE INSTRUCTION FOR
EXERCISE NOBLE SKYWAVE 2020



1. SITUATION

- a. General. The Communications and Electronics (C&E) Branch is holding its annual Professional Development week at Canadian Forces Base Kingston. The Canadian Forces Joint Signal Regiment (CFJSR), on behalf of the C&E Branch, will use this opportunity to conduct Ex NOBLE SKYWAVE 2020 (Ex NS 2020). The exercise will see the establishment of voice and data links between domestic and international teams via High Frequency (HF) skywave propagation.
- b. Participation. Invited to participate are all Regular, Reserve, or Auxiliary Force units with HF radio communications from Canada, the United Kingdom, the United States of America, Peru, Australia, and New Zealand. Members of the Canadian Forces Affiliate Radio System (CFARS) and the US Military Auxiliary Radio System (MARS) are also invited to participate. Furthermore, other members from the international community who have expressed interest in participating in Ex NS 2020 are invited to do so.

2. MISSION. The CFJSR will organize and facilitate Ex NS 2020 from 281000Z0CT20 to 291900Z0CT20 in order to provide a venue to confirm HF interoperability amongst the international community.

3. EXECUTION

- a. Concept of Ops
 - (1) Intent. I intend to build on the success of previous iterations of Ex NS to involve the C&E Branch, The Canadian Forces School of Communications and Electronics (CFSCE), and the international community in a training exercise that emphasizes HF skywave propagation to both domestic and international teams.
 - (2) Scheme of Manoeuvre. Within a competition construct, participating teams will earn points for successful contacts with other participants. The scoring matrix for this competition will reward teams that are able to achieve contact with more distant participants. Teams are responsible for their own respective broadcast detachments, stations, sites, and personnel.

The Officer in Charge (OIC) will retain responsibility for the overall coordination and conduct of the competition. Throughout the exercise, individual units are responsible for the setup, tear-down, and manning of their detachments, and will accrue all fees. The exercise and competition will occur in 3 phases:

- (a) Phase 1 – Preparation. The preparation phase will see the allocation of personnel, the generation of applicable documents, and the call for participation letters. The competition will be enabled through the delivery of the Communications and Electronics Operating Instructions (CEOs) to participants by their Ex NS 2020 email address, as well as publication on the Ex NS 2020 web application (web app) at <https://nobleskywave.ca/>. Participation will be confirmed and communication checks will be conducted at the local level. This phase ends upon the establishment of the Net Control Station (NCS) at CFB KINGSTON;
 - (b) Phase 2 – Competition. While operating on a 24-hr basis (in order to accommodate all time zones), teams will earn points for successful radio checks between stations. This phase ends upon declaration of the winner by the NCS; and
 - (c) Phase 3 – Post-Ex Drills. Under unit supervision, the NCS and all out-stations will be torn-down and returned to their respective lines. Prizes and letters of appreciation will be distributed. This phase ends upon submission of the After Action Report (AAR) to the C&E Branch Adjutant.
- (3) Main Effort. Ensure the continued quality of the exercise for future years, by creating a framework for future planning teams and maintenance instructions for web app.
 - (4) End State. My end state will be achieved with the publishing of results, the updating of the exercise trophy, and the acceptance of the after action report (AAR) by the C&E Branch Adjutant.
- b. Groupings and Tasks
- (1) Planning Team
 - (a) Submit frequency requests;
 - (b) Bring online and maintain the exercise web app;
 - (c) Maintain web app and use it as a primary resource for document distribution;
 - (d) Provide participants exercise instruction and CEOs;
 - (e) Accept registrations and issue supporting documentation to teams;

- (f) Ensure continuity of planning teams, by creating timeline framework for future planning teams as well as web app maintenance instructions;
 - (g) Establish Exercise Control Command Post (EXCON CP) as the NCS;
 - (h) Establish internet-based NCS to enable global coordination with all participating detachments and stations;
 - (i) Administrate and monitor competition to ensure fairness to all teams involved;
 - (j) Collect lessons learned from all competitors and prepare AAR to present to C&E Branch Adjutant; and
 - (k) Prepare and disseminate thank you letters.
- (2) Participating Units.
- (a) Informally indicate the intent to participate to the OIC as soon as possible;
 - (b) Complete the formal registration at <https://nobleskywave.ca/> and submit by the deadline;
 - (c) Submit frequency request through respective communications staff or national spectrum management organization as applicable;
 - (d) Prepare HF equipment as deemed required in preparation for the competition;
 - (e) Participate within the guidelines outline in Ex instructions; and
 - (f) Provide NCS with lessons learned upon completion of Ex NS 2020.

b. Coordinating Instructions

(1) Timings

- (a) 04 Sep 20 – Registration opens;
- (b) 10 Sep 20 – Formal call for participation letters released;
- (c) 17 Sep 20 – Exercise Instructions and CEOIs released;
- (d) 212100ZOCT20 – Deadline for registration;
- (e) 261800ZOCT20 – Final participant, call-sign, and location list published;

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- (f) 271300ZOCT20 – Optional Communications checks begin;
- (g) 281000ZOCT20 – Competition begins;
- (h) 291900ZOCT20 – Competition ends; and
- (i) November 2020 – AAR points submitted to the C&E Branch Adjutant.

(2) Locations

- (a) EXCON/NCS Primary. CFSCE – 18T UP 8557 9962; and
- (b) EXCON/NCS Alternate. TBD.

(3) Registration. Registration for the exercise can be completed on the exercise web app at <https://nobleskywave.ca/>. Recognizing the importance of timely information and the efforts required of the formal application process, an informal email to the OIC signaling the intent to participate will ensure your team receives all pertinent documentation;

(4) Scoring. The scoring criteria will be released with the CEOs; and

(5) Limitations. As a voluntary exercise, all costs are borne by the participating units and this exercise will not take precedence over an official task.

2. SERVICE SUPPORT

- a. Concept of Support. Participation in the event is voluntary. Outside of providing the exercise framework and the competition concept, neither CFJSR, the C&E Branch, nor CFSCE have allocated resources to support other units. Support is ultimately borne by the units for their participating teams, detachments, or stations; and
- b. Financial. The CFJSR and CFSCE will rely on the C&E Branch support EXCON. Any financial commitments will be briefed to the Branch Adjt prior to committing.

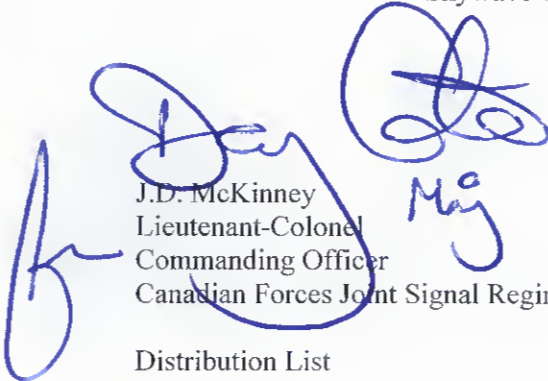
3. COMMAND AND SIGNALS

a. Contact Information

- (1) Officer In Charge (OIC) / Exercise Coordinator, Lieutenant Bradley Hogan, CFJSR, +1 613-541-5010 extension 5798, bradley.hogan@forces.gc.ca; and
- (2) Chief Communications Operator (CCO), Warrant Officer, Dylan McGraw, 21 EW Regt, +1 613-541-5010 extension 4032, Dylan.McGraw@forces.gc.ca.

b. Signals.

- (1) Official documents for the exercise will be distributed by the event OIC via email as they become available. They will also be made available on the Exercise Noble Skywave web app, found at <https://nobleskywave.ca/>; and
- (2) CEOs. Produced by the CCO, the CEOs will be distributed to registered teams and will also be made available on the Exercise Noble Skywave web app.



J.D. McKinney
Lieutenant-Colonel
Commanding Officer
Canadian Forces Joint Signal Regiment

Distribution List

Action

- Exercise Officer In Charge
Exercise Chief Communications Operator
1 Cdn Div HQ//J6
1 CMBG HQ & Sigs Sqn//CO/Ops O
1 Wg//Ops O/TISO
2 CMBG HQ & Sig Sqn//CO/Ops O
2 Cdn Div//G6/CO 2 CDSG Sig Sqn
3 Cdn Div//G6/CO 3 CDSG Sig Sqn
3 Wg//Ops O/TISO
4 Cdn Div HQ//G6
4 CDSG Sig Sqn//CO/Ops O
4 Wg//Ops O/TISO
42 Radar Sqn//Ops O
5 Cdn Div HQ//G6
5 CDSG Sig Sqn//CO/Ops O
5 CMBG HQ & Sig Sqn//CO/Ops O
5 Wg//Ops O/TISO
8 ACCS//CO/Ops O
8 Wg//Ops O/TISO
9 Wg//Ops O/TISO
12 Wg//Ops O/TISO
14 Sig Regt (UK)//CO/Ops O
14 Wg//Ops O/TISO
15 Wg//Ops O/TISO
16 Wg//Ops O/TISO
17 Wg//Ops O/TISO

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19 Wg//Ops O/TISO
21 EW Regt//CO/DCO/RSM/R Sig O
22 Wg//Ops O/TISO
31 Sig Regt//CO/Ops O
32 Sig Regt//CO/Ops O
33 Sig Regt//CO/Ops O
34 Sig Regt//CO/Ops O
35 Sig Regt//CO/Ops O
36 Sig Regt//CO/Ops O
369 Sig BN (US)//CO/Ops O
37 Sig Regt//CO/Ops O
37 Sig Regt (UK)//CO/Ops O
38 Sig Regt//CO/Ops O
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39 Sig Regt (UK)//CO/Ops O
41 Sig Regt//CO/Ops O
71 Sig Regt (UK)//CO/Ops O
Army MARS Program Manager
CANFLTLANT//N6
CANFLTPAC//N6
CANSOFCOM//J6
CFARS National Manager
CFIOG//Comd/COS
CFJSR//CO/Ops O
CFSCE//CO/Ops O
JTFN//CCO
MARLANT//N6 Plans
NAVRES//N6
USCG//CO/Ops O
US Army MARS Program Manager

Info

C&E Branch Adjt