532-2022 APPENDIX A

Winnipeg Fire Paramedic Service

Self-Contained Breathing Apparatus Evaluation

EVALUATION FORM

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1. Initial Evaluations

a. Overall package profile (uncluttered)

b. Face piece profile (uncluttered)

c. Voice amplifier profile / size (if equipped)

d. Overall package perceived weight / balance while donned

e. Overall package size – height / width / depth while donned

f. Straps well constructed and padded

g. Buckles and/or fasteners operate easily

h. Straps are long enough / not too long

i. Cylinder securely fastened to back frame

j. Cylinder gauge easy to read when in back frame

k. Ease of battery change – number of batteries number of battery locations – tools needed

2. Donning and Off-Air Breathing

a. Harness opens large enough for entry

b. Overall comfort of back frame and harness

c. Weight distribution and balance

d. Mask location/management when not being worn

e. Facepiece harness opens large enough for entry

f. Ease of facepiece harness adjustment

g. Comfort and balance of facepiece when worn

h. Comfort of seal against face

i. Facepiece resists fogging while not on air

j. Ease of breathing while not on air

k. Cylinder valve easy to reach and turn on

l. Hood fit well around facepiece – no gaps

m. Straps easy to locate and adjust when donning

n. Shoulder straps slide easily into place on shoulders - no bunching or grabbing on bunker coat

o. Clarity of communication with facepiece on

p. Helmet fits well to facepiece

q. Compatibility with thermal imaging camera, radio, flashlight, and other equipment

3. On Air and Pre-entry Test

a. Regulator easily dismounts from holster

b. Regulator docks easily to facepiece with gloves on

c. Bypass/Purge valve operates easily with gloves on

d. Remote gauge/ control module easy to read with facepiece donned

e. Remote gauge / control module easy to light up to facilitate viewing in the dark

f. Field of view with regulator in (look down, up, side to side without moving your head)

g. Ease of regulator air shutoff and doffing

h. Clarity of communication while on air

i. Vision is not distorted by lens when looking to side, up, down

4. Peak Load Performance

a. Ease of breathing during peak workload

b. Comfort during stair climb (no binding or strain)

c. Facepiece resists fogging

d. Facepiece resists migration upon perspiration

e. Facepiece leaks at seal

f. Facepiece requires re-adjustment due to migration or leaks

5. Harness Security / Chopping Test

a. Harness does not restrict movement during task

b. Hoses, gauge and other components don't interfere

c. SCBA stays secure & balanced on back

d. Straps stay secure & don't loosen during activity

e. Facepiece remains secure/no leakage

6. Harness Freedom / Pike Pole Pulling

a. Freedom to perform overhead task

b. Back of helmet doesn't contact cylinder

c. Mask does not impede upward vision

d. Facepiece seal leaks while looking up

7. Balance and Reaching

a. SCBA is secure when reaching

b. Harness allows stretching of arms

c. Vision is not distorted for hand-eye tasks

8. Face piece Radio Communications

a. Clarity of radio audio via supplied speaker (headset or other)

b. Clarity of voice communications as delivered by face piece microphones

c. Ease of use of PTT and other controls

d. Reliability and performance of SCBA integration with department radios/continuity of communications

9. Search and Rescue

a. Low pressure alarm, volume

b. Ease of identifying low pressure alarm (hear, feel, see)

c. Ability to read remote gauge in darkness

d. Ability to communicate with crew while in low air alarm, can you easily lessen the sound of the alarm in order to communicate

e. Ability to communicate over radio while in low air alarm

f. Ability to hear other crew members low air alarm from different room and from outside the building

10. Cleaning

a. Facepiece cleaning is a simple procedure

b. Harness and back frame are easy to clean

c. SCBA harness and back frame are easy to clean

d. Should voice amp and/or HUD be removed for thorough cleaning

e. Does inside of regulator require decontamination to prevent cross contamination between Firefighters. Will this require drying time to prevent regulator freeze-up?

11. Overall General Evaluation

a. Facepiece

b. Backframe, Harness, Fasteners

c. Low Pressure Alarm (mechanical)

d. Regulator - connection, ease of use, ease of maintenance

e. HUD – features, ease of viewing, ease of maintenance

f. Remote Gauge / Control Module – features, ease of use

g. RIT / Survival Options

h. Communications – Clarity (face to face)

i. Telemetry

12. Comment section for any <u>Health and Safety</u> concerns, recommendations, Pros and Cons.

13. Comment section for Additional features, Options, etc.