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Notes on Draft 13 (changes to the Off-Line Edit)

- 1) **Scene 93: CGs are now "6+ cfm (170+ l/m)**
- 2) **Scene 149B: delete 800# from CG**
- 3) **Scene 100-o-1 (page 12): do not show orange hose connected to Temp-air valve**
- 4) **Scene 186: updated © etc.**

Notes:

- 1) Character Generations (CGs) are in **bold**.
- 2) Scene numbering system is based on 1998 HEAB Speedglas 9000 Video.
- 3) CU = Close Up
- 4) Adflo HINT has: smaller battery, no head cover, a shiny hose. The big battery, head cover and rubber hose are AVAILABLE OPTIONS...i.e. OK to show in application scenes but it's better not to show options for tabletop instructional scenes.
- 5) Adflo HI ALWAYS has: bigger battery, head cover, rubber hose. Important to show USA system in close-ups and tabletop instructions.
- 6) Fresh-air C (Compressed air, HINT) and Fresh-air SA (Supplied air, HI) look different close-up but are similar at a distance (application scenes), although SA always has a head cover.

(1) Opening montage: (music)

Adflo welding

Fresh-air SA welding

System features

(Do not show FlexView or
ClearVisor for HI video: these
products are not yet approved.)

(2) (logos; do NOT reverse) (music)

Speedglas®

Adflo®

(GC) **by Hornell** (no "ö")

(72) CG: #1: **Overview Of Hornell Respiratory Systems** (no "ö")

Superimposed over factory footage

Modern welding is performed under a variety of working conditions.

(73A) Pan across dirty factory scene...

(73B) Pan across photo of modern factory.

Some conditions are unavoidably difficult...while others are state-of-the-art.

(74)

Close-up of smoky arc

But even under the best of circumstances, welding processes produce harmful fume particles.

(75)

Man's chest with chemical symbols scrolling by.

These welding particles can cause lung, brain, and heart-related diseases. By-product vapors can irritate respiratory passages...

(76)

Doctor examining lung x-rays

...and they are suspected to cause debilitating and life-threatening illnesses.

(77)

Hygienist reviewing test vials and looking up contaminants in reference book

All welding facilities need a safety professional to measure airborne contaminants to determine suitable respiratory protection.

(78A)

Long shot of CBC

Indeed, conditions considered "acceptable" by the regulations can still produce a variety of symptoms, including nausea, headaches, dizziness, eye and skin irritation, metal fume

(78B)

Fatigued welders

fever, and general fatigue.

(79) Welding scenes.

CU of HI Adflo unit in the
small of welder's back

Many companies are now
providing better respiratory
protection than required, to
reduce welder fatigue and sick
days, while improving morale
and productivity.

(80) New Adflo welding.

**CU of Adflo unit in small of
welder's back during welding.**

Hornell respirators have been
shown to greatly increase
welder comfort by reducing
respiratory complaints and heat
fatigue.

(81) welding scenes, SA

In turn, welder performance and
productivity have improved
measurably.

(81B) HI Adflo welding scenes

And in many cases, the number
of employee "sick days" has
dropped dramatically.

**(82) Metal Set: Adflo and SA
valves**

CG: NIOSH 42 CFR 84

All Hornell Respiratory Systems
have been approved to the
current NIOSH 42 CFR 84
standard.

**(83) Metal set: Speedglas with
HI Adflo system.**

TBT CG: Speedglas® With Adflo®

The Speedglas with Adflo system
is a powered air-purifying
respirator.

**(84A) HI Adflo welding; welder
enters tight space wearing
system**

The Adflo system is lightweight
and compact, so welders can
enter tight spaces.

(NEW in Draft 11: 84A-2) Side
view of HI Adflo on tabletop,
showing how thin it is.

Its thin, ergonomic design
keeps its weight close to the
welder's body.

(84B) Studio: CU of HI Adflo

There are no battery cables and

unit with belt in hands of welder, showing how light it is, then hand runs over unit showing it has no sharp corners.

no sharp corners to catch on obstacles.

(85)...close-up of HI Adflo unit in small of welder's back...pull camera back to show that welder is welding...

The Adflo blower/motor is designed to fit into the small of the back, where the air is substantially cleaner...

(86)...cut to comparison shot of smoke plume streaming around the front of the welder's helmet.

...than the air near the welder's face.

(87) Close-up of actual HI Adflo unit on welder's back with animated (light brown) arrows added to show (unfiltered) air being pulled into filters and then leaving filters as blue (clean air) arrows.

The blower/motor draws air into the high efficiency filter media.

(NEW in Draft 11: 87B) close-up of the air hose port, i.e. the point where the air hose leaves the blower unit

The port on the blower directs the breathing hose so it is *parallel* to the welder's back, keeping it close to the body.

(88) Side view of HI Adflo system on welder welding, animated blue arrows showing air flow through the breathing hose and into the headgear airduct

The filtered air is blown through the breathing hose to the helmet's airduct.

(89) Animated arrows showing airflow.

The airduct distributes air from three openings: one above

the eyes, and two along the sides. As a result, the filtered air is more evenly distributed over the entire breathing zone without a harsh "blowing" effect.

(90) Hand gently runs long the edge of the elastic HI face seal (showing that it is soft); reshoot with new helmet label

A soft elastic face seal keeps out airborne contaminants, while allowing exhaled air to escape.

(91 deleted; see 159-B-1)

(92)

CG: Constant Airflow Rate

HI Adflo welding scenes

The Adflo system has special electronics to continually monitor its airflow rate and adjust its blower speed accordingly.

(93) **CG: 6+ cfm (170+ l/m)**

(above CG modified for Draft 13)

Adflo welding scenes

Airflow is pre-set to a nominal minimum of six cubic feet, or 170 liters, per minute and will be kept constant at this pre-set value...

(94) Show the three different states of the battery LED (also see scene 97B)

(sound of constant blowing)
...regardless of the battery's charge...

(95A) Have hand cover the intake of the Adflo, causing the motor to speed up. Then remove hand so motor slows down.

...or the particle-loading of the filter. The Constant Airflow Rate increases welder comfort while extending the useful life of the particle filter.

NOTE: no Airflow Plus for HI

- (96) HI Adflo:** Welder stops welding and checks the unit's LEDs If the airflow ever goes below the minimum level...
- (97) HI Adflo (Studio): Unit makes "low airflow alarm" sound and Close-up of red LED light ON** ...an alarm and a red indicator light will warn the user.
- (97B) Close-up or series of close-ups of battery LED at different charge stages** A LED display constantly indicates the current charge status of the battery.
- (98) RESHOOT with Adflo (studio): low battery audible alarm and flashing battery indicator light.** When the battery needs recharging, a brief audible warning is given and the battery indicator flashes.
- (98B) Welder with HI Adflo unit in front of himself: installs battery, Particle filter, and cover, and then slides unit to the small of his back.** Both the battery and filters can be changed while the user is wearing the unit.
- (98C) Studio: pan across wide part of belt spread on tabletop, with installed blower unit.** The Adflo belt is extra wide around the blower unit to provide additional padding as well as back support.
- (98D) Studio: user wear unit. Close up of leather front of belt as user bends forward and then sideways.** The front part of the belt is made of leather, shaped for maximum freedom of movement and welder comfort.
- (98E) Studio: close-up of motor (unit without any filters** The exclusive brushless motor has three times the design life