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• Changes to Offline (script 3-B) shown in **bold** this, script 4-A

- All CGs are underlined
- Chapter numbers probably not required
- Goal is to keep video as short as possible
- "Filter" becomes "lens" throughout
- Only one mention of Fresh-air products (at end of video); do NOT use any welding footage of FA products.

(Enough changes to warrant a re-read of entire narration)

(30 second montage deleted to save time)

(1B) (logo) Speedglas®

(2) Special effects introduce (music climaxes)

CG: Speedglas® 9000:

Energizing The Welder

(3) CG: Unique Protection From Welding Hazards Arc welding creates a variety of environmental hazards.

Close-up of arc welding

(4-A) Close-up of 3/4 view of set of eyes, above images of: Without constant protection, eyes are vulnerable to flash
(4-B) arc flashes on all black set burns...flying debris...and
spattering molten metal.

(4-C) sparks from grinding on all black set

(4-D) close-up of large, red-hot weld pool

(5 deleted)

(5B...added in 8-A)
Close-up of welder welding with conventional helmet.. CGs: CO₂ swirling on top of the helmet's breathing zone.

In addition, the welder inhales his own exhausted carbon dioxide, creating self-induced exhaustion.

6 and 7 deleted (7's footage used in new scene 125 below)

(8) Pan across photo of group of welders.

Speedglas conducted an extensive survey of welders from five different countries. The 15,000 survey responses help guide our efforts...

("recently" deleted from 1st sentence)

(9)
Transition to 9000 helmet. Helmet slowing pivoting, dramatic light; try star lens on videocamera.

...on the new Speedglas 9000 auto-darkening welding helmet. The Speedglas 9000 Series offers welders these exclusive benefits:

(10) Animate Cederblom's "Bild 7A, B, C & D" color computer illustrations...animation show airflow arrows moving thru vents to outside (also see scene 54).

- A helmet that "breathes" so as to reduce carbon dioxide build-up.

(11) Close-up of front of uninstalled lens.

- Extraordinarily fine lens optics.

(12) Thru-the-lens demonstrating of shade switching: **light-dark-light again.**

- Extremely reliable shade switching for all arc welding processes.

13 deleted

(14) CG: The Basics of Auto-

The basics of auto-darkening

Darkening Safety

(15) 2 complete lens cassettes...gloved hand shows non-electronic UV/IR lens component

(16) Above screen wipes halfway from the left to show a hand holding a conventional lens against a plain, boring background (shade 13 deleted).

(17) Reshoot with USA F lens label: Continue left screen as above...right screen switches to a new scene with hand turning ON lens installed in helmet...go to scene of thru-the-lens switching from light to dark.

(new 17-B)
Laminate illustration with bold sans serif callouts.

(18A) cu of photosensor...add animated arrow...

(18B)
cut to thru-the-lens views of light-to-dark-to-light again switching

(19) Thru-the-lens view of top of welding work table...go from ON to OFF state.

safety are easy to understand.

Every Speedglas lens assembly has a non-electronic UV/IR filter built-in.

This component provides the same level of UV/IR filtration as a traditional welding lens.

This high level of UV/IR protection is always in place, whether the lens is ON or OFF, light or dark, or in the process of switching.

Each Speedglas lens is a laminate of seven different layers: the UV/IR filter, three polarizers, two liquid crystal elements, and a cover glass.

Independent photosensors, located at eye level, detect the welding arc, triggering the liquid crystal elements to shutter the lens from light to dark...**and back to light again.**

If the power should fail, the welding lens simply defaults to the exclusive Speedglas safety

shade, which is a level between the light and dark shades.

(20) CGs scrolling over world map or spinning globe background (reduced # of standards):

CSA Z94.3

USA ANSI Z87.1

Speedglas lenses meet all U.S. and Canadian safety standards for eye and face protection.

(21) Welder walking around workstation with helmet down while another welder welds...cut to both welders welding side-by-side.

In addition, welders can always see with their helmets in the safe "down" position. So they are always protected from accidental "flashings" and other workplace hazards.

(21A1)

Welding scenes

CG: **10% to 50%+**

Field tests have measured productivity gains from Speedglas products ranging from 10 to 50% **or more**, depending upon the welding application.

(21A2) Redo Productivity Chart with simplified symbols...chart's straight line curve is drawn in 5 seconds (left to right wipe)

Many companies can attest to the fact that their Speedglas investments have quickly paid for themselves in increased production output and weld quality.

(21B) CGs: (Speedglas® logo)

(music)

- Constant Protection
- Meets All Standards
- Increased Productivity
- Higher Quality Welds

(22)

CG: Speedglas® 9000 Helmets &

Lenses

(CG "3" transitions to lower right corner).

(23) White, blank background...camera zooms into black, unlit interior of floating (traditional, non-Speedglas) helmet to imitate welder's face being covered by a hood (claustrophobic feeling)...

This is where you'll spend your time today....How could you be made more...comfortable?

(24)
...same image as above, but heavy breathing noises added.

How about being able to breathe?...Breathe air that's not stale or overly humid?

(25)
Pivoting helmet (variation of scene 9).

Welcome to the Speedglas 9000 helmet....It's unlike any other welding helmet in the world....Its ambition is to vastly improve the interior comfort of welding helmets.

(26) big CG: CO₂
Shrink big CG to small (vanishing) CG
Background is man's chest breathing (existing FA video, 14).

The key is carbon dioxide reduction. The human body precisely regulates carbon dioxide in our bloodstream by exhaling surplus CO₂.

(27) Welder lifting traditional helmet, looks sick, blows out his cheeks in fatigue, etc.

Even small increases in atmospheric carbon dioxide can cause fatigue...headaches...and nausea.

(28)
Hand removing front silver

The Speedglas 9000 solution is a welding helmet that

panel to reveal the 4 helmet
(interior) vents...

"breathes." It has four
aerodynamic exhaust vents...

(29)
Close-up of the helmet vents.

...carefully-designed and
tested to remove exhaled air
without letting in welding
smoke.

(30)
Animate Cederblom's "Bild 7A,
B, C & D" color computer
illustrations...animation show
airflow arrows moving thru
vents to outside (also see
scene 10)

Exhaled air is directed through
two thin openings created
between the double-shell
construction of the silver
front panel and the black
helmet. The welder's natural
breathing action "powers" the
design...no moving parts are
involved.

(31A) (side view cu of one thin
opening with animated blue
arrow indicated exhaled air
leaving the opening).

Fresh, incoming air is not
drawn through these openings...

(31B) Welder welding with 9000
helmet...add animated blue
arrows to show incoming air
drawn from around the welder's
neck.

...instead, it chooses its path
of least resistance, the area
around the welder's neck.

32 deleted

(32B...pushed back a scene in
8-A) HEAB's videotape footage
of Kjell blowing smoke through
the helmet's exhaust vents.

This smoke machine
demonstration shows how air is
exhaled through the double
shell construction.

33A and 33B deleted

(34)

Real world welding experience