$$(\mathbf{d} \mathbin{\mathring{,}} \mathbf{g})(p^*, r) = \bigvee_{q \in \mathbf{Q}} \mathbf{d}(p^*, q) \wedge \mathbf{g}(q^*, r)$$

$$\preceq_{\mathbf{DP}} \bigvee_{q \in \mathbf{Q}} \mathbf{e}(p^*, q) \wedge \mathbf{h}(q^*, r)$$

$$= (\mathbf{e} \mathbin{\mathring{,}} \mathbf{h})(p^*, r).$$