Lemma. There is a functor FixFunMinRes: $\mathbf{DP} \to \mathbf{Pos}_{\mathcal{U}}$ which maps:

1. An object (poset) in \mathbf{DP} to the same object (poset) in $\mathbf{Pos}_{\mathcal{U}}$.

2. A morphism $\mathbf{e} \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{F}; \mathbf{R})$ to the morphism $H_{\mathbf{e}} \in \operatorname{Hom}_{\mathbf{Pos}_{\mathcal{H}}}(\mathbf{F}; \mathbf{R})$,

where:

 $H_{\mathbf{e}}^{\star}: \mathbf{F} \to_{\mathbf{Pos}} \mathcal{U}\mathbf{R}$

 $f \mapsto \{r \in \mathbf{R} \mid \mathbf{e}(f^*, r)\}.$