Inference at $*$ 1
 of proof for Lemma can-apply-fun-exp:

1. A : Type
2. f : $A \rightarrow (A$ + Top)
3. n : $\mathbb{Z}$
4. $0 < n$
5. $\forall y{:}A.\ (\uparrow\text{isl}(f\hat{}n$ - $1(y))) \Rightarrow (\forall m{:}\mathbb{N}.\ (m \leq (n$ - $1)) \Rightarrow (\uparrow\text{isl}(f\hat{}m(y))))$
6. y : A
7. m : $\mathbb{N}$
8. $m \leq n$
9. $\neg(m = 0)$

$\vdash(\uparrow\text{isl}(f\hat{}n$ - 1 o $f\hat{}1\ (y))) \Rightarrow (\uparrow\text{isl}(f\hat{}m$ - 1 o $f\hat{}1\ (y)))$

by (RepUR “p-compose can-apply do-apply“ (0)·)
CollapseTHEN (((
GenConclAtAddr [1;1;1;1;1])
CollapseTHENA (Auto·)·)
CollapseTHEN ((D (-2)·)

CollapseTHEN ((Reduce 0)
CollapseTHEN ((Auto·)
CollapseTHEN (((if ((0
) = 0) then BackThruSomeHyp else BHyp (0))·)
CollapseTHEN (Auto·)·)·)·)·)·

.

---

http://www.nuprl.org/FDLcontent/p0_963683_/p35_1118182_{can-apply-fun-exp}1.html