```
nd_comp_car_wf  THM

⊢  ∀Alph,St:Type, C:NComp(Alph;St). |C| ∈ Alph*  by UnivCD
|
1. Alph : Type
2. St : Type
3. C : NComp(Alph;St)
⊢  |C| ∈ Alph*  by Unfold ‘nd_comp_car‘ 0
|
⊢  2of(hd(C)) ∈ Alph*  by Analyze 3
|
3. C : St×Alph* List+
4. ∀i:ℕ(||C||-1). ||2of(C[i])||>0
⊢   by Analyze 3
|
3. C : (St×Alph*)*
4. ||C||>0
5. ∀i:ℕ(||C||-1). ||2of(C[i])||>0
⊢   by Auto
END
```