```
1       --- assign the hazard-mitigating requirements
2       let AD^{hazRD} = AD^{hmr}
3       --- assign the mitigated hazard from CM^h from Listing 4
4       let h^{hazRD} = haz
5       --- assign safety goal and trigger conditions specific to h^{hrd^h}
6       let tc^h = ∅
7       let sg^h = ∅
8       foreach res ∈ fha(actD^{hir}) {
9           if res = haz {
10              sg^h = sg^{haz}|sg^{haz} ∈_t res
11              tc^h = tc^{haz}|tc^{haz} ∈_t res
12          }
13      }
14      --- create mitigation partitions for each partial mitigation
15      let CM^{hazRD} = ∅
16      foreach cm_i^h ∈ CM^h {
17          let part = pm_i^h\R^{actD}|R^{actD} ∈_t pm_i^h ∧ actD ∈_t pm_i^h S
18          CM^{hazRD} = CM^{hazRD} ∪ (part)
19      }
20      --- create Hazard Relation
21      let hr^{hazRD}
```

Listing 5   Pseudo-Code Signature $append^X$ of a QVTo Script $q^{hrd}$ Generate Hazard Relation Diagrams