```
    --- create hazard associations from each Hazard Relation Diagram
    --- component to the Hazard Relation.
    --- first, create hazard association between hazard and Hazard Relation
    let ha_1^hazRD = (h^hazRD, hr^hazRD)
    --- second, create hazard association between safety goal and Hazard Relation
    let ha_2^hazRD = (sg^h, hr^hazRD)
    --- third, create hazard association between top-most
    --- trigger condition and Hazard Relation
    let ha_3^hazRD = (tc^h, hr^hazRD)
    --- subsume all three hazard association into one set of Hazard Relations
    let HA^hazRD = {ha_1^hazRD, ha_2^hazRD, ha_3^hazRD}
    --- fourth (to n-th), create hazard association between every mitigation
    --- partition and the Hazard Relation and add to set of Hazard Associations
    foreach pm_i^h ∈ CM^hazRD {
        let HA^hazRD = HA^hazRD ∪ ha_tmp^hazRD | ha_tmp^hazRD = (pm_i^h, hr^hazRD)
    }
    --- create a Hazard Relation Diagram tuple from all components
    let hrd = "HRD for Hazard" + h^hazRD
    hazRD = (hrd, AD^hazRD, h^hazRD, T^h, sg^h, MP^hazRD, hr^hazRD, HA^hazRD)
    return hazRD
}
```

Listing 6 Pseudo-Code Signature $append^{HA}$ of a QVTo Script q^{hrd} Generate Hazard Relation Diagrams