$H_1\ x_n = 0 < \omega$

$R_1 H\ x_n = 0 \to H_{\omega \to 1}^{x_n = 0} < \varepsilon_0$

[illegible]

$R_1(R_1 H)\ x_n = 0 = H_{\omega \to 1}(H_{\omega \to 1}^{x_n = 0})$

$= H$

$H(R_1 H)\ x_n = 0 \to H_2 H_{\omega \to 1}^{s_n = 0} \to H_{\omega+1 \to 1}^{s_n = 0}$

$HH(R_1 H)\ x_n = 0 \to H_2 H_2 H_{\omega \to 1}^{s_n = 0} = H_{\omega+2 \to 1}^{s_n = 0}$

$(R_1 H)(R_1 H)\ x_n = 0 \to H_{\omega+2} H_{\omega \to 1}^{s_n = 0} = H_{\omega 2 \to 1}^{s_n = 0}$

$R_1(R_1 H)\ x_n = 0 \to H_{\omega^2 \to 1}^{s_n = 0}$

$H R_1 H\ x_n = 0 \to H_{\omega^\omega \to 1}^{s_n = 0}$

$H H R_1 H\ x_n = 0 \quad H_{\omega^{\omega^2} \to 1}^{s_n = 0}$

$R_1 H R_1 H\ x_n = 0 \quad H_{\varepsilon_0 \to 1}^{s_n = 0} = H_{H_{\omega \to 1}^{x_n = 0 \to 1}}^{x_n = 0}$

$= H_{H_{H\, s_n = 0 \to 1}^{x_n = 0 \to 1}}^{x_n = 0}$

$R_2 R_1 H\ x_n = 0 = H_1[H_{1 \to 1}\ s_n = 0]\ 0$

$= [[[H_1[H_{1 \to 1}, \mp +]\,0]]\ s_n = 0$

$= H_1'\ s_n = 0$